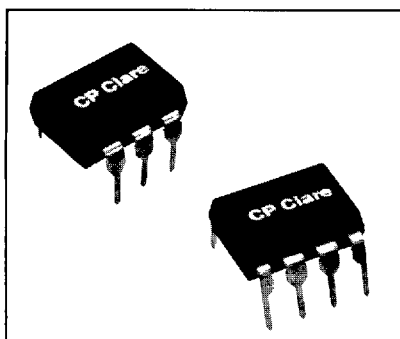


# OptoMOS<sup>™</sup> Solid State Switches



## DESCRIPTION

Single or dual output OptoMOS solid state switches are part of CP Clare's growing family of solid state switching devices (Loads up to 400 volts AC or DC and currents up to 1 Amp). As replacements for form "A"/"B"/"C" or dual form "A"/"B" electromechanical relays, these devices use a proprietary photovoltaic circuit and MOSFET switching elements for reliable bounce-free switching operation. Complimentary output devices require no auxillary supply current to maintain an on-state condition.

## FEATURES

- Small 6 and 8 pin DIP Packages
- 2mW Drive Power (Logic Compatible)
- No Moving Parts
- Loads up to 400V AC/DC and 1 Amp (1P) or 170mA (2P)
- Expected Life > 15 Billion Operations
- Arc-Free with No Snubbing Circuits
- 3750V<sub>RMS</sub> Input/Output Isolation
- FCC Compatible
- No EMI/RFI Generation
- Machine Insertable, Wave Solderable
- Surface Mount, Flatpack and Tape & Reel Version Available
- UL Recognized: File Number E76270
- CSA, VDE Compatible
- BAPT: Certified to BS415:1990- Certificate Numbers 7023 and 7726
- BAPT: Certified to BS EN60950: 1992 (BS7002: 1992) Certificate Numbers 7344 and 7727
- BAPT: Complies with EN41003: 1993

## APPLICATIONS

- Telecommunications
  - Telecom Switching
  - Tip/Ring Circuits
  - Modem Switching (Laptop, Notebook, Pocket Size)
  - Hookswitch
  - Dial Pulsing
  - Ground Start
  - Ringer Injection
- Instrumentation
  - Multiplexers
  - Data Acquisition
  - Electronic Switching
  - I/O Subsystems
  - Meters (Watt-Hour, Water, Gas)
  - Medical Equipment
- Security
- Aerospace
- Industrial Controls

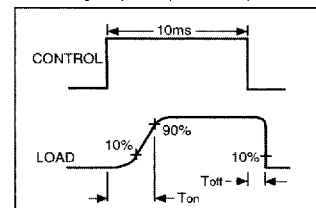
## RATINGS (@ 25°C)

| Parameter                              | Min  | Typ | Max              | Units            |
|----------------------------------------|------|-----|------------------|------------------|
| Input Power Dissipation                | —    | —   | 150 <sup>1</sup> | mW               |
| Input Control Current                  | —    | —   | 100              | mA               |
| Peak (10msec)                          | —    | —   | 1                | A                |
| Reverse Input Voltage                  | —    | —   | 5                | V                |
| Total Power Dissipation                | —    | —   | 800 <sup>2</sup> | mW               |
| Capacitance                            |      |     |                  |                  |
| Input to Output                        | —    | 3   | —                | pF               |
| Isolation Voltage                      |      |     |                  |                  |
| Input to Output                        | 2500 | —   | —                | V <sub>RMS</sub> |
| "E" Suffix (Optional)                  | 3750 | —   | —                | V <sub>RMS</sub> |
| Operating Temperature                  | -40  | —   | 85               | °C               |
| Storage Temperature                    | -40  | —   | 125              | °C               |
| Soldering Temperature (10 Seconds Max) | —    | —   | 260              | °C               |

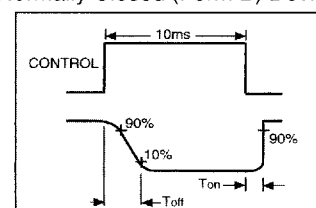
<sup>1</sup> Derate Linearly 1.33 mW/°C

<sup>2</sup> Derate Linearly 6.67 mW/°C

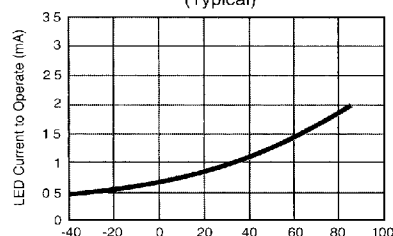
Switching Characteristics of Normally Open (Form A) Devices



Switching Characteristics of Normally Closed (Form B) Devices



LED Operate Current vs Ambient Temperature Characteristics (Typical)



2144904 0000301 567

# OptoMOS<sup>™</sup> Solid State Switches

## 1 Form A Relays

**Specifications**
**Output Characteristics @ 25°C**

| Part Number                                       | PLA110              | PLA140      | PLA150      | LCA110       | LCA120   | LCA125   | LCA127   | LCA710       | OMA160         | Units    |
|---------------------------------------------------|---------------------|-------------|-------------|--------------|----------|----------|----------|--------------|----------------|----------|
| Contact Form                                      | 1 Form A            | 1 Form A    | 1 Form A    | 1 Form A     | 1 Form A | 1 Form A | 1 Form A | 1 Form A     | 1 Form A       |          |
| Load Voltage (Peak)                               | 400                 | 400         | 250         | 350          | 250      | 300      | 250      | 60           | 250            | V        |
| Load Current (Continuous)                         |                     |             |             |              |          |          |          |              |                |          |
| X-Configuration                                   | 150                 | 250         | 170         | 120          | 170      | 170      | 170      | 1000         | 50             | mA       |
| Y-Configuration                                   | 210                 | 350         | 300         | 200          | 300      | 300      | 300      | 1800         | 80             |          |
| Peak Load Current<br>(10ms Max.)                  | 400                 | 500         | 500         | 350          | 400      | 400      | 400      | 5000         | 100            | mA       |
| On-Resistance<br>@ Rated Load Current             |                     |             |             |              |          |          |          |              |                |          |
| X-Configuration                                   | Typ 15<br>Max 22    | 6<br>8      | 5<br>7      | 23<br>35     | 12<br>20 | 10<br>16 | 8<br>10  | 0.3<br>0.5   | 50<br>100      | $\Omega$ |
| Y-Configuration                                   | Typ 5<br>Max 7      | 2<br>3      | 1<br>2      | 7<br>10      | 4<br>6   | 4<br>5   | 2<br>3   | 0.1<br>0.15  | 15<br>30       |          |
| Off State Leakage Current<br>@ Rated Load Voltage | Max 1               | 1           | 1           | 1            | 1        | 1        | 1        | 1            | 0.025          | $\mu$ A  |
| Switching Times                                   |                     |             |             |              |          |          |          |              |                |          |
| Control Current                                   | 5                   | 5           | 5           | 2/5          | 5        | 5        | 5        | 10           | 10             | mA       |
| $T_{ON}$                                          | Typ 0.4<br>Max 1    | 0.6<br>1.5  | 0.8<br>2.5  | 1.2/1<br>5/3 | 1.2<br>5 | 1.2<br>5 | 3<br>5   | 1<br>2.5     | 0.085<br>0.125 | ms       |
| $T_{OFF}$                                         | Typ 0.1<br>Max 0.25 | 0.1<br>0.25 | 0.1<br>0.25 | 1/1<br>3/3   | 1<br>5   | 1<br>5   | 2<br>5   | 0.06<br>0.25 | 0.050<br>0.125 | ms       |
| Output Capacitance<br>@ 50V, f = 1MHz             | Typ 35              | 110         | 110         | 25           | 50       | 50       | 110      | 220          | 5              | pF       |

**Input Characteristics @ 25°C**

|                       |                               |                   |                   |                   |                   |                   |                   |                   |                   |         |
|-----------------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------|
| Input Control Current |                               |                   |                   |                   |                   |                   |                   |                   |                   |         |
| $I_{LED}$             | Min 5<br>Max 100              | 5<br>100          | 5<br>100          | 2<br>100          | 5<br>100          | 5<br>100          | 5<br>100          | 10<br>100         | 10<br>100         | mA      |
| Input Dropout Current |                               |                   |                   |                   |                   |                   |                   |                   |                   |         |
| $I_{LED}$             | Min 0.4<br>Typ 0.7            | 0.4<br>0.7        | 0.4<br>0.7        | 0.4<br>0.7        | 0.4<br>0.7        | 0.4<br>0.7        | 0.4<br>0.7        | 0.4<br>0.7        | 0.4<br>0.7        | mA      |
| Input Voltage Drop    |                               |                   |                   |                   |                   |                   |                   |                   |                   |         |
| $V_F$ @ 5mA           | Min 0.9<br>Typ 1.2<br>Max 1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | V       |
| Reverse Input Voltage | Max 5                         | 5                 | 5                 | 5                 | 5                 | 5                 | 5                 | 5                 | 5                 | V       |
| Reverse Input Current | Max 10                        | 10                | 10                | 10                | 10                | 10                | 10                | 10                | 10                | $\mu$ A |

|                                                    |      |      |      |      |      |      |      |      |      |           |
|----------------------------------------------------|------|------|------|------|------|------|------|------|------|-----------|
| Input to Output Capacitance                        |      |      |      |      |      |      |      |      |      |           |
| Typ                                                | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | pF        |
| Input to Output Isolation                          | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | $V_{RMS}$ |
| With "E" Suffix (optional)                         | 3750 | 3750 | 3750 | 3750 | 3750 | 3750 | 3750 | 3750 | 3750 |           |
| Current Limiting <sup>1</sup><br>Version Available | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | No   | No   |           |

<sup>1</sup> Current limiting typically adds 5 ohms to the total on-resistance of the device.

# OptoMOS Solid State Switches

## 1 Form B Relays

**Specifications**
**Output Characteristics @ 25°C**

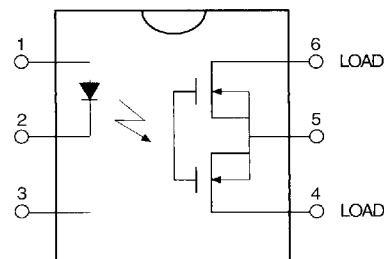
| Part Number                                       | LCB110           | LCB120           | LCB127          | Units    |
|---------------------------------------------------|------------------|------------------|-----------------|----------|
| Contact Form                                      | 1 Form B         | 1 Form B         | 1 Form B        |          |
| Load Voltage (Peak)                               | 350              | 250              | 250             | V        |
| Load Current (Continuous)                         |                  |                  |                 |          |
| X-Configuration                                   | 120              | 170              | 170             | mA       |
| Y-Configuration                                   | 200              | 300              | 300             |          |
| Peak Load Current<br>(10ms Max.)                  | 350              | 400              | 400             | mA       |
| On-Resistance<br>@ Rated Load Current             |                  |                  |                 |          |
| X-Configuration                                   | Typ 23<br>Max 35 | Typ 16<br>Max 20 | Typ 8<br>Max 10 | $\Omega$ |
| Y-Configuration                                   | Typ 7<br>Max 10  | Typ 5<br>Max 6   | Typ 2<br>Max 3  |          |
| Off State Leakage Current<br>@ Rated Load Voltage | Max 1            | Max 1            | Max 1           | $\mu$ A  |
| Switching Times                                   |                  |                  |                 |          |
| Control Current                                   | 5                | 5                | 5               | mA       |
| $T_{ON}$                                          | Typ 0.5<br>Max 3 | Typ 1<br>Max 5   | Typ 2<br>Max 5  | ms       |
| $T_{OFF}$                                         | Typ 0.7<br>Max 3 | Typ 1.2<br>Max 5 | Typ 3<br>Max 5  | ms       |
| Output Capacitance<br>@ 50V, f = 1MHz             | Typ 25           | Typ 50           | Typ 100         | pF       |

**Input Characteristics @ 25°C**

|                                    |                   |                   |                   |                   |         |
|------------------------------------|-------------------|-------------------|-------------------|-------------------|---------|
| Input Control Current<br>$I_{LED}$ | Min<br>Max        | 5<br>100          | 5<br>100          | 5<br>100          | mA      |
| Input Dropout Current<br>$I_{LED}$ | Min<br>Typ        | 0.4<br>0.7        | 0.4<br>0.7        | 0.4<br>0.7        | mA      |
| Input Voltage Drop<br>$V_F @ 5mA$  | Min<br>Typ<br>Max | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | V       |
| Reverse Input Voltage              | Max               | 5                 | 5                 | 5                 | V       |
| Reverse Input Current              | Max               | 10                | 10                | 10                | $\mu$ A |

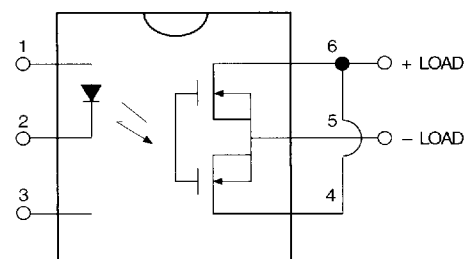
|                                                         |              |              |              |           |
|---------------------------------------------------------|--------------|--------------|--------------|-----------|
| Input to Output Capacitance<br>Typ                      | 3            | 3            | 3            | pF        |
| Input to Output Isolation<br>With "E" Suffix (optional) | 2500<br>3750 | 2500<br>3750 | 2500<br>3750 | $V_{RMS}$ |
| Current Limiting <sup>1</sup><br>Version Available      | No           | No           | No           |           |

<sup>1</sup>Current limiting typically adds 5 ohms to the total on-resistance of the device

**X-Configuration**  
 (AC or DC Configuration)


Pin Connections

|              |              |
|--------------|--------------|
| 1 + Control  | 6 Load       |
| 2 - Control  | 5 Do not use |
| 3 Do not use | 4 Load       |

**Y-Configuration**  
 (DC Only Configuration)


Pin Connections

|              |                |
|--------------|----------------|
| 1 + Control  | 4 and 6 + Load |
| 2 - Control  | 5 - Load       |
| 3 Do not use |                |

► **NOTE:**  
 For Mechanical Dimensions refer to page 20.

## OptoMOS Solid State Switches

### 2 Form A Relays

#### Specifications

#### Output Characteristics @ 25°C

| Part Number         | PAA110 <sup>3</sup> | PAA140 <sup>3</sup> | PAA150 <sup>3</sup> | LAA110 <sup>3</sup> | LAA120 <sup>3</sup> | LAA125 <sup>3</sup> | LAA127 <sup>3</sup> | OAA160 <sup>3</sup> | Units |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------|
| Contact Form        | 2 Form A            | 2 Form A            | 2 Form A            | 2 Form A            | 2 Form A            | 2 Form A            | 2 Form A            | 2 Form A            |       |
| Load Voltage (Peak) | 400                 | 400                 | 250                 | 350                 | 250                 | 300                 | 250                 | 250                 | V     |

## OptoMOS Solid State Switches

### 2 Form B / 1 Form B - 1 Form A / 1 Form C Relays

**Specifications**
**Output Characteristics @ 25°C**

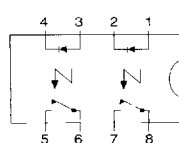
| Part Number                                       | LBB110 <sup>2</sup> | LBB120 <sup>2</sup> | LBB127 <sup>2</sup> | LBA110 <sup>2</sup>  | LBA120 <sup>2</sup>  | LBA127               | LCC110   | LCC120   | Units |    |
|---------------------------------------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------|----------|-------|----|
| Contact Form                                      | 2 Form B            | 2 Form B            | 2 Form B            | 1 Form B<br>1 Form A | 1 Form B<br>1 Form A | 1 Form B<br>1 Form A | 1 Form C | 1 Form C |       |    |
| Load Voltage (Peak)                               | 350                 | 250                 | 250                 | 350                  | 250                  | 250                  | 350      | 250      | V     |    |
| Load Current (Continuous)                         | 120                 | 170                 | 170                 | 120                  | 170                  | 170                  | 120      | 170      | mA    |    |
| Peak Load Current<br>(10ms Max.)                  | 350                 | 400                 | 400                 | 350                  | 400                  | 400                  | 350      | 400      | mA    |    |
| On-Resistance<br>@ Rated Load Current             |                     |                     |                     |                      |                      |                      |          |          |       |    |
| Typ                                               | 23                  | 16                  | 8                   | 23                   | 16                   | 8                    | 23       | 16       | Ω     |    |
| Max                                               | 35                  | 20                  | 10                  | 35                   | 20                   | 10                   | 35       | 20       |       |    |
| Off State Leakage Current<br>@ Rated Load Voltage | Max                 | 1                   | 1                   | 1                    | 1                    | 1                    | 1        | 1        | μA    |    |
| Switching Times                                   |                     |                     |                     |                      |                      |                      |          |          |       |    |
| Control Current                                   | 5                   | 5                   | 5                   | 5                    | 5                    | 5                    | 8        | 10       | mA    |    |
| T <sub>ON</sub>                                   | Typ                 | 0.5                 | 1                   | 2                    | —                    | —                    | —        | —        | ms    |    |
|                                                   | Max                 | 3                   | 5                   | 5                    | 3                    | 5                    | 5        | 4        |       | 5  |
| T <sub>OFF</sub>                                  | Typ                 | 0.7                 | 1.2                 | 3                    | —                    | —                    | —        | —        | ms    |    |
|                                                   | Max                 | 3                   | 5                   | 5                    | 3                    | 5                    | 5        | 4        |       | 5  |
| Output Capacitance<br>@ 50V, f = 1MHz             | Typ                 | 25                  | 50                  | 110                  | 25                   | 50                   | 110      | 25       | 50    | pF |

**Input Characteristics @ 25°C**

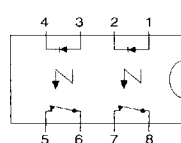
|                       |                   |                   |                   |                   |                   |                   |                   |                   |                   |    |
|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----|
| Input Control Current | Min<br>Max        | 5<br>100          | 5<br>100          | 5<br>100          | 5<br>100          | 5<br>100          | 5<br>100          | 8<br>100          | 10<br>100         | mA |
| I <sub>LED</sub>      |                   |                   |                   |                   |                   |                   |                   |                   |                   |    |
| Input Dropout Current | Min<br>Typ        | 0.4<br>0.7        | 0.4<br>0.7        | 0.4<br>0.7        | 0.4<br>0.7        | 0.4<br>0.7        | 0.4<br>0.7        | 0.4<br>0.7        | 0.4<br>0.7        | mA |
| I <sub>LED</sub>      |                   |                   |                   |                   |                   |                   |                   |                   |                   |    |
| Input Voltage Drop    | Min<br>Typ<br>Max | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | 0.9<br>1.2<br>1.4 | V  |
| V <sub>F</sub> @ 5mA  |                   |                   |                   |                   |                   |                   |                   |                   |                   |    |
| Reverse Input Voltage | Max               | 5                 | 5                 | 5                 | 5                 | 5                 | 5                 | 5                 | 5                 | V  |
| Reverse Input Current | Max               | 10                | 10                | 10                | 10                | 10                | 10                | 10                | 10                | μA |

|                               |     |      |      |      |      |      |      |      |      |                  |
|-------------------------------|-----|------|------|------|------|------|------|------|------|------------------|
| Input to Output Capacitance   | Typ | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | pF               |
| Input to Output Isolation     |     | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | V <sub>RMS</sub> |
| With "E" Suffix (optional)    |     | 3750 | 3750 | 3750 | 3750 | 3750 | 3750 | 3750 | 3750 |                  |
| Current Limiting <sup>1</sup> |     | No   | No   | No   | No   | No   | No   | No   | No   |                  |
| Version Available             |     | No   | No   | No   | Yes  | Yes  | Yes  | No   | No   |                  |

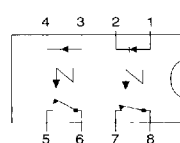
<sup>1</sup> See page 6  
<sup>2</sup> Available in low profile flatpack

**PA/LAA/OAA**


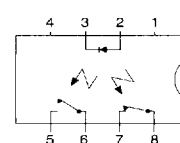
**CONNECTIONS**  
 1,2 Control, Pole 1  
 3,4 Control, Pole 2  
 5,6 Normally-Open Pole 2  
 7,8 Normally-Closed Pole 1

**LBB**


**CONNECTIONS**  
 1,2 Control, Pole 1  
 3,4 Control, Pole 2  
 5,6 Normally-Closed Pole 2  
 7,8 Normally Closed Pole 1

**LBA**


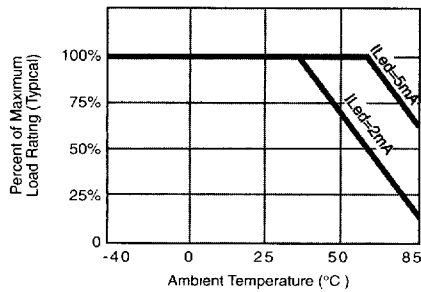
**CONNECTIONS**  
 1,2 Normally-Closed Control  
 3,4 Normally-Open Control  
 5,6 Normally-Open Pole  
 7,8 Normally-Closed Pole

**LCC**


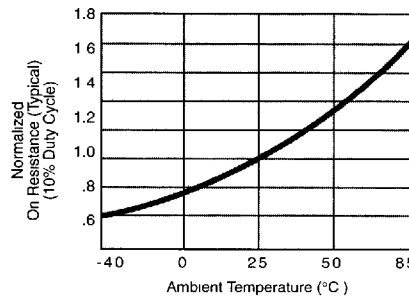
**CONNECTIONS**  
 1 Do not Use  
 2+ + Control  
 3 - Control  
 4 Do not Use  
 5,6 Normally-Open Pole  
 7,8 Normally Closed Pole

# OptoMOS<sup>®</sup> Performance Data

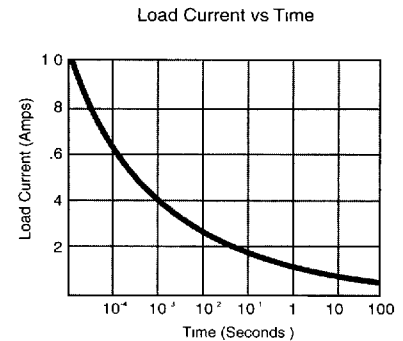
1) Load Current vs Ambient Temperature Characteristics



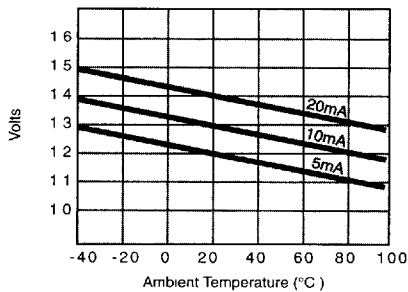
2) Normalized On-Resistance vs. Ambient Temperature



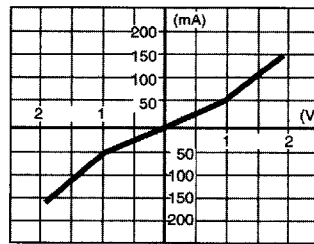
3) Energy Rating Curve



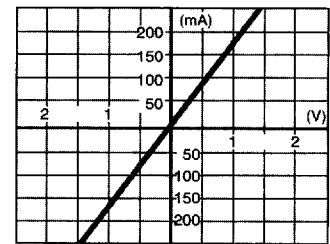
4) Typical Forward Voltage vs Temperature (VF)



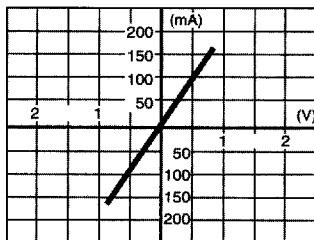
5) PLA110, PAA110 Load Voltage vs. Load Current Characteristics (Typical)



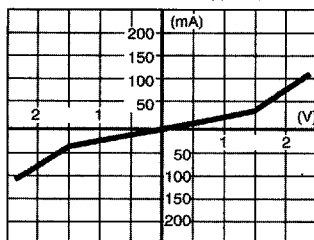
6) PLA140, PAA140 Load Voltage vs. Load Current Characteristics (Typical)



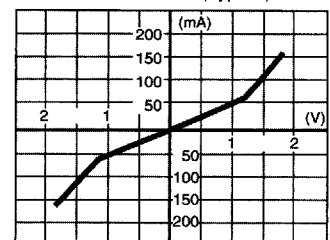
7) PLA150, PAA150 Load Voltage vs. Load Current Characteristics (Typical)



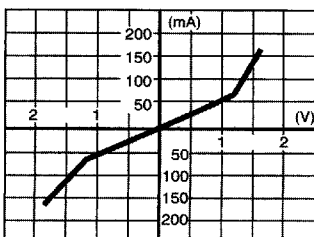
8) LCA110, LAA110, LCB110 LBB110, LBA110, LCC110 Load Voltage vs. Load Current Characteristics (Typical)



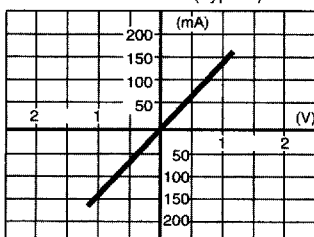
9) LCA120, LAA120, LCB120 LBB120, LBA120, LCC120 Load Voltage vs. Load Current Characteristics (Typical)



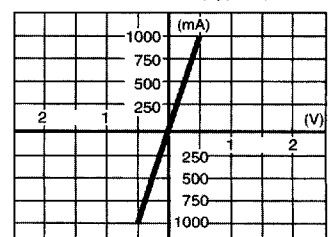
10) LCA125, LAA125 Load Voltage vs. Load Current Characteristics (Typical)



11) LCA127, LAA127, LCB127 LBB127, LBA127 Load Voltage vs. Load Current Characteristics (Typical)

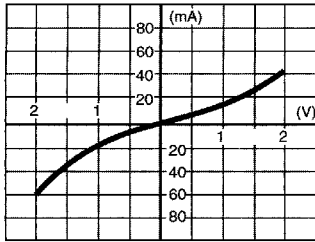


12) LCA710 Load Voltage vs. Load Current Characteristics (Typical)

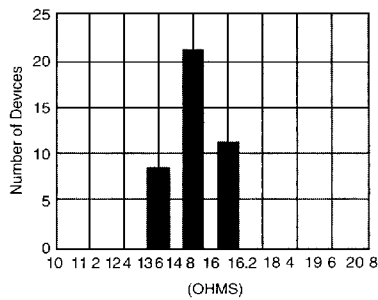


# OptoMOS Performance Data

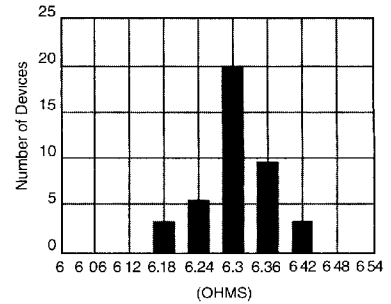
13) OMA160, OAA160  
Load Voltage vs. Load Current  
Characteristics (Typical)



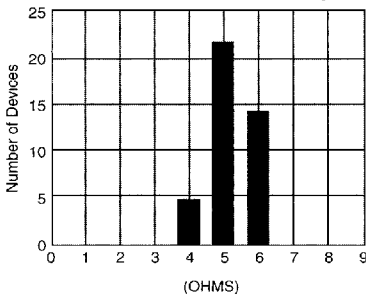
14) PLA110, PAA110  
On-Resistance Distribution  
(N=40: Ambient Temp = 25 Deg C)



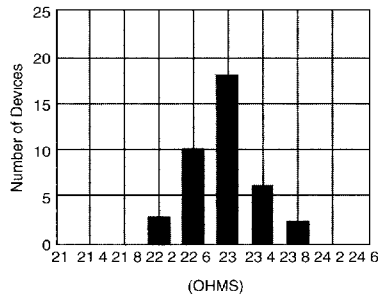
15) PLA140, PAA140  
On-Resistance Distribution  
(N=40: Ambient Temp = 25 Deg C)



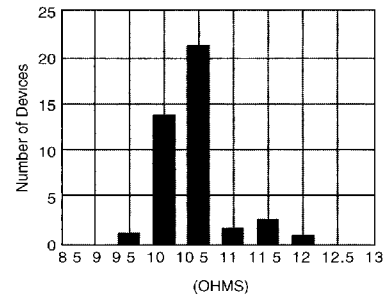
16) PLA150, PAA150  
On-Resistance Distribution  
(N=40: Ambient Temp = 25 Deg C)



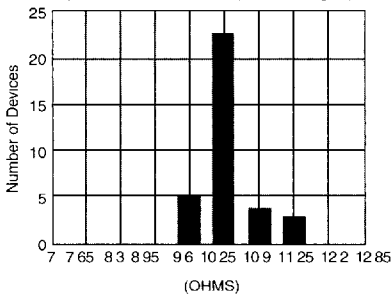
17) LCA110, LAA110, LCB110,  
LBB110, LCC110  
On-Resistance Distribution  
(N=40: Ambient Temp = 25 Deg C)



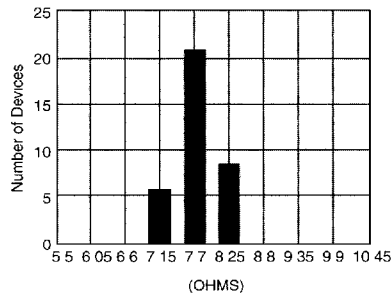
18) LCA120, LAA120, LCB120,  
LBB120, LCC120  
On-Resistance Distribution  
(N=40: Ambient Temp = 25 Deg C)



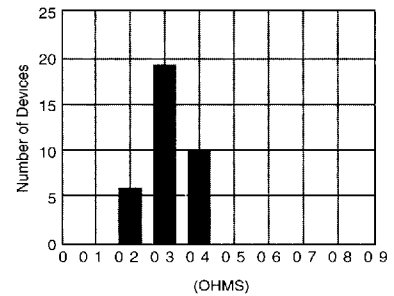
19) LCA125, LAA125  
On-Resistance Distribution  
(N=40: Ambient Temp = 25 Deg C)



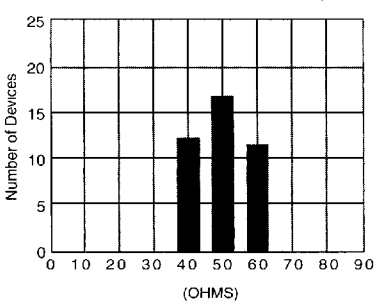
20) LCA127, LAA127, LCB127,  
LBB127, LBA127  
On-Resistance Distribution  
(N=40: Ambient Temp = 25 Deg C)



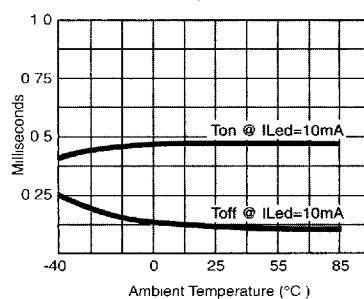
21) LCA710  
On-Resistance Distribution  
(N=40: Ambient Temp = 25 Deg C)



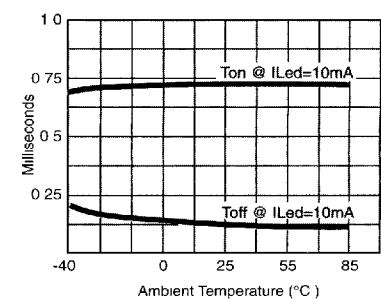
22) OMA160, OAA160  
On-Resistance Distribution  
(N=40: Ambient Temp = 25 Deg C)



23) PLA110, PAA110  
Switching Speed vs Temperature  
(Typical)



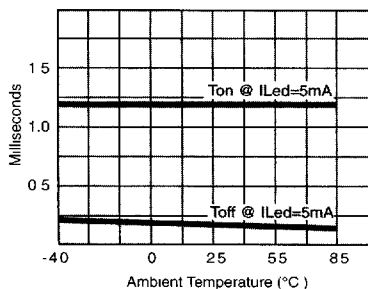
24) PLA140, PAA140  
Switching Speed vs Temperature  
(Typical)



# OptoMOS Performance Data

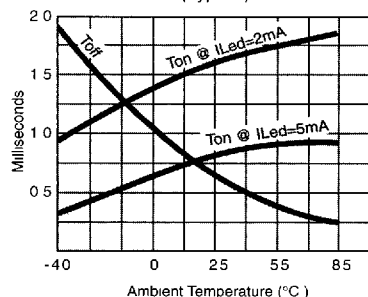
25) PLA150, PAA150

Switching Speed vs Temperature  
(Typical)



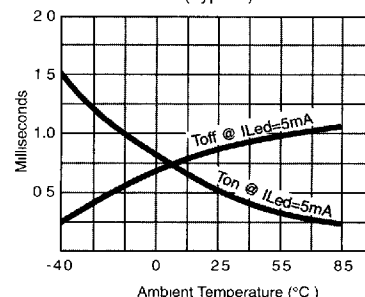
26) LCA110, LAA110

Switching Speed vs Temperature  
(Typical)



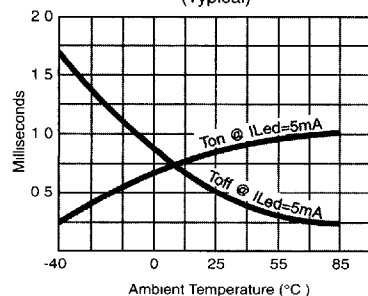
27) LCB110, LBB110

Switching Speed vs Temperature  
(Typical)



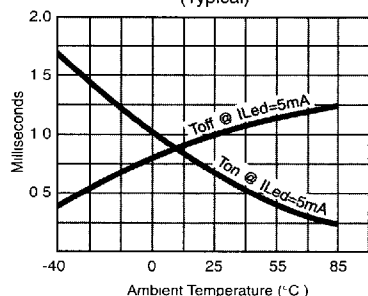
28) LCA120, LCA125, LCA127

LAA120, LAA125, LAA127  
Switching Speed vs Temperature  
(Typical)



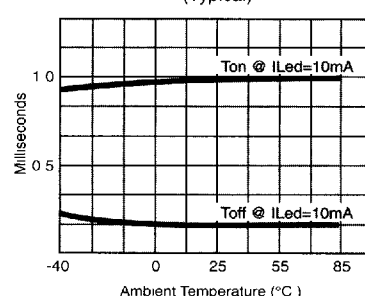
29) LCB120, LCB127, LBB120, LBB127

Switching Speed vs Temperature  
(Typical)



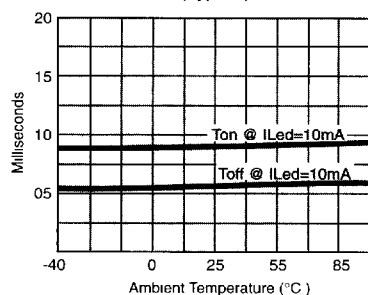
30) LCA710

Switching Speed vs Temperature  
(Typical)



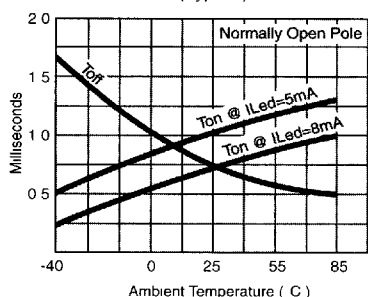
31) OMA160, OAA160

Switching Speed vs Temperature  
(Typical)



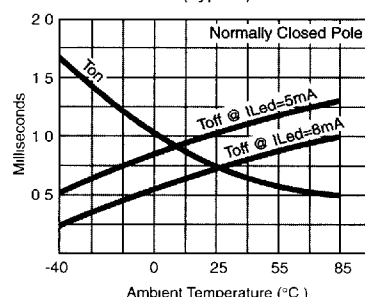
32) LBA110, LBA120, LBA127

Switching Speed vs Temperature  
(Typical)



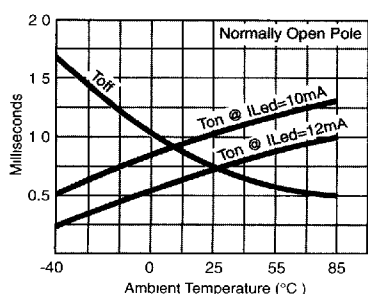
33) LBA110, LBA120, LBA127

Switching Speed vs Temperature  
(Typical)



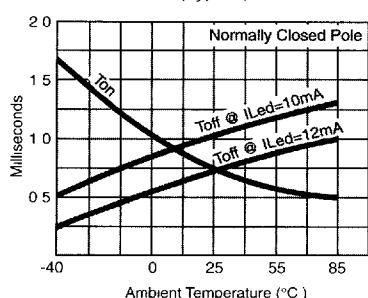
34) LCC110, LCC120

Switching Speed vs Temperature  
(Typical)



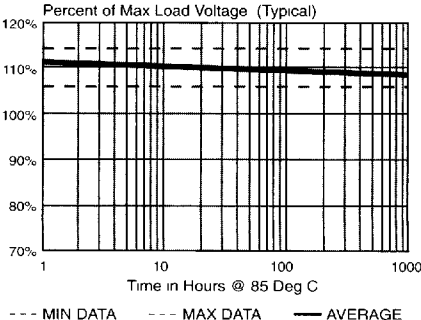
35) LCC110, LCC120

Switching Speed vs Temperature  
(Typical)



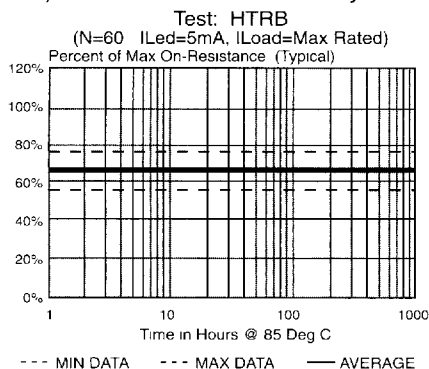
36) Blocking Voltage Stability

Test: HTRB  
(N=60: Blocking Voltage @ 1μA)

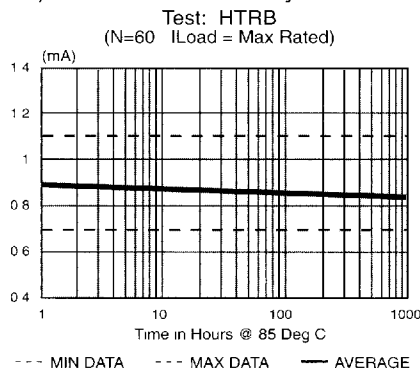


# OptoMOS Performance Data

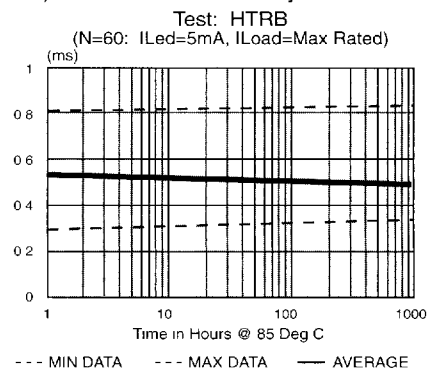
## 37) On-Resistance Stability



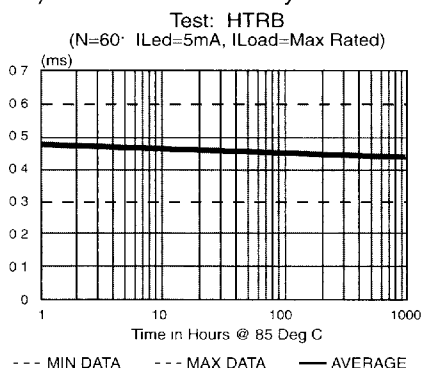
## 38) ILED Stability



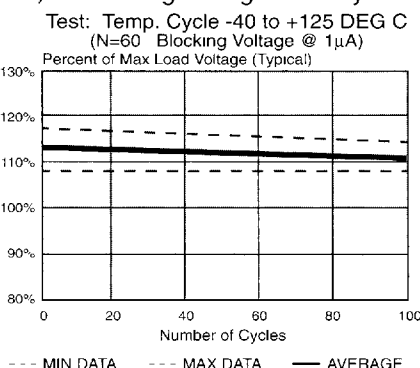
## 39) Ton Stability



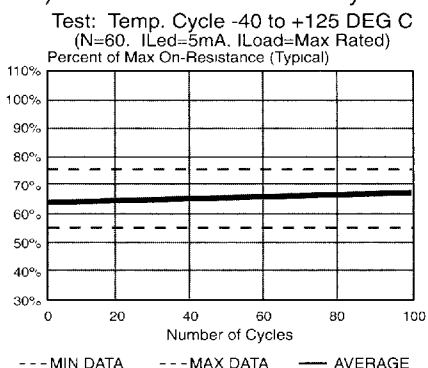
## 40) Toff Stability



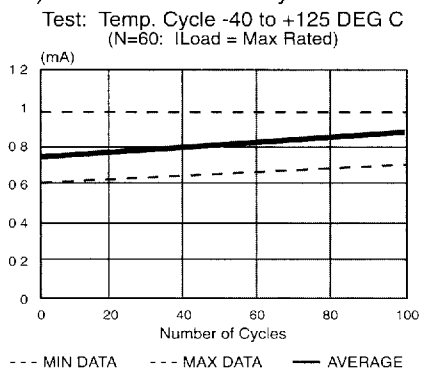
## 41) Blocking Voltage Stability



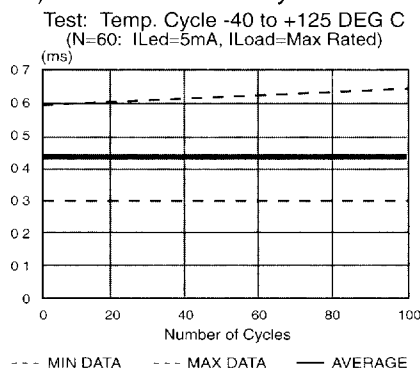
## 42) On-Resistance Stability



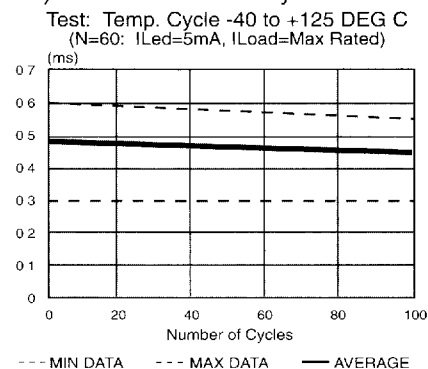
## 43) ILED Stability



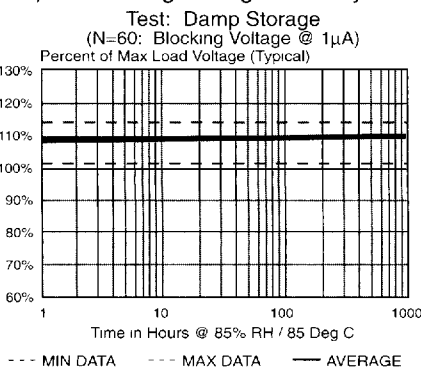
## 44) Ton Stability



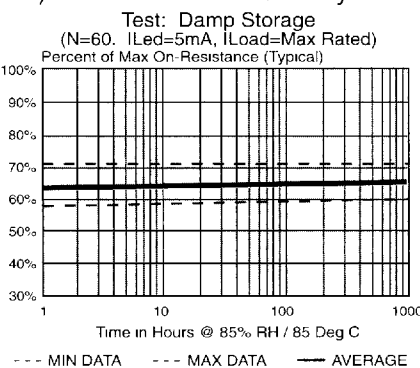
## 45) Toff Stability



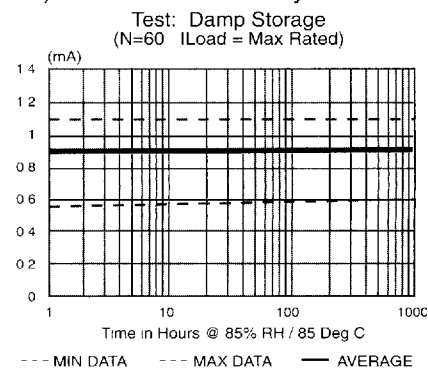
## 46) Blocking Voltage Stability



## 47) On-Resistance Stability

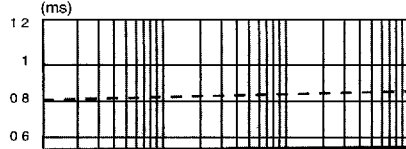


## 48) ILED Stability

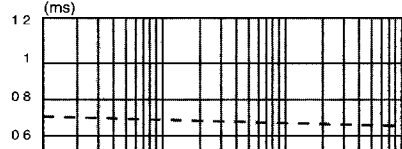


## OptoMOS<sup>®</sup> Performance Data

49) Ton Stability  
Test: Damp Storage  
(N=60: ILed=5mA, ILoad=Max Rated)



50) Toff Stability  
Test: Damp Storage  
(N=60: ILed=5mA, ILoad=Max Rated)



51) Blocking Voltage Stability  
Test: Cold Storage  
(N=60: Blocking Voltage @ 1μA)  
Percent of Max Load Voltage (Typical)

