


## Small Outline Optoisolators Transistor Output (Low Input Current)

These devices consist of a gallium arsenide infrared emitting diode optically coupled to a monolithic silicon phototransistor detector, in a surface mountable, small outline, plastic package. They are ideally suited for high density applications, and eliminate the need for through-the-board mounting.

- Convenient Plastic SOIC-8 Surface Mountable Package Style
- Low LED Input Current Required, for Easier Logic Interfacing
- Standard SOIC-8 Footprint, with 0.050" Lead Spacing
- Compatible with Dual Wave, Vapor Phase and IR Reflow Soldering
- High Input-Output Isolation of 3000 Vac (rms) Guaranteed
- UL Recognized  File #E90700, Volume 2

### Ordering Information:

- To obtain MOC215, 216, 217 in Tape and Reel, add R2 suffix to device numbers:  
R2 = 2500 units on 13" reel
- To obtain MOC215, 216, 217 in quantities of 50 (shipped in sleeves) — No Suffix

### Marking Information:

- MOC215 = 215
- MOC216 = 216
- MOC217 = 217

### Applications:

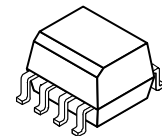
- Low power Logic Circuits
- Interfacing and coupling systems of different potentials and impedances
- Telecommunications equipment
- Portable electronics

### MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

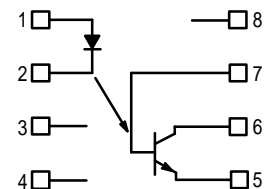
Rating	Symbol	Value	Unit
<b>INPUT LED</b>			
Forward Current — Continuous	$I_F$	60	mA
Forward Current — Peak (PW = 100 $\mu\text{s}$ , 120 pps)	$I_F(\text{pk})$	1.0	A
Reverse Voltage	$V_R$	6.0	V
LED Power Dissipation @ $T_A = 25^\circ\text{C}$ Derate above $25^\circ\text{C}$	$P_D$	90 0.8	mW mW/ $^\circ\text{C}$
<b>OUTPUT TRANSISTOR</b>			
Collector-Emitter Voltage	$V_{CEO}$	30	V
Collector-Base Voltage	$V_{CBO}$	70	V
Emitter-Collector Voltage	$V_{ECO}$	7.0	V
Collector Current — Continuous	$I_C$	150	mA
Detector Power Dissipation @ $T_A = 25^\circ\text{C}$ Derate above $25^\circ\text{C}$	$P_D$	150 1.76	mW mW/ $^\circ\text{C}$

**MOC215**  
**MOC216**  
**MOC217**

**SMALL OUTLINE  
OPTOISOLATORS  
TRANSISTOR OUTPUT**



### SCHEMATIC



1. LED ANODE
2. LED CATHODE
3. NO CONNECTION
4. NO CONNECTION
5. EMITTER
6. COLLECTOR
7. BASE
8. NO CONNECTION

**MAXIMUM RATINGS — continued** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

Rating	Symbol	Value	Unit
<b>TOTAL DEVICE</b>			
Input–Output Isolation Voltage <sup>(1,2)</sup> (60 Hz, 1.0 sec. duration)	$V_{ISO}$	3000	Vac(rms)
Total Device Power Dissipation @ $T_A = 25^\circ\text{C}$ Derate above $25^\circ\text{C}$	$P_D$	250 2.94	mW mW/ $^\circ\text{C}$
Ambient Operating Temperature Range <sup>(3)</sup>	$T_A$	–45 to +100	$^\circ\text{C}$
Storage Temperature Range <sup>(3)</sup>	$T_{stg}$	–45 to +125	$^\circ\text{C}$
Lead Soldering Temperature (1/16" from case, 10 sec. duration)	—	260	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)<sup>(4)</sup>

Characteristic	Symbol	Min	Typ <sup>(4)</sup>	Max	Unit
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**INPUT LED**

Forward Voltage ( $I_F = 1.0\text{ mA}$ )	$V_F$	—	1.05	1.3	V
Reverse Leakage Current ( $V_R = 6.0\text{ V}$ )	$I_R$	—	0.1	100	$\mu\text{A}$
Capacitance	C	—	18	—	pF

**OUTPUT TRANSISTOR**

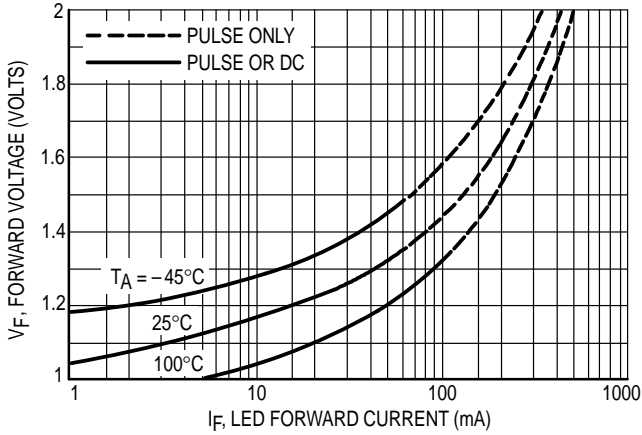
Collector–Emitter Dark Current ( $V_{CE} = 5.0\text{ V}$ , $T_A = 25^\circ\text{C}$ ) ( $V_{CE} = 5.0\text{ V}$ , $T_A = 100^\circ\text{C}$ )	$I_{CEO1}$	—	1.0	50	nA
	$I_{CEO2}$	—	1.0	—	$\mu\text{A}$
Collector–Emitter Breakdown Voltage ( $I_C = 100\ \mu\text{A}$ )	$V_{(BR)CEO}$	30	90	—	V
Emitter–Collector Breakdown Voltage ( $I_E = 100\ \mu\text{A}$ )	$V_{(BR)ECO}$	7.0	7.8	—	V
Collector–Emitter Capacitance ( $f = 1.0\text{ MHz}$ , $V_{CE} = 0$ )	$C_{CE}$	—	7.0	—	pF

**COUPLED**

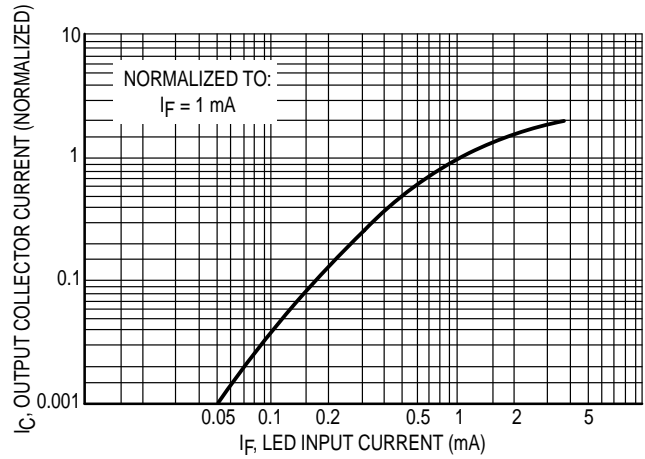
Output Collector Current ( $I_F = 1.0\text{ mA}$ , $V_{CE} = 5.0\text{ V}$ )	MOC215 MOC216 MOC217	$I_C$ (CTR) <sup>(5)</sup>	200 (20) 500 (50) 1.0 (100)	500(50) 800 (80) 1.3 (130)	— — —	$\mu\text{A}$ (%) $\mu\text{A}$ (%) mA (%)
Collector–Emitter Saturation Voltage ( $I_C = 100\ \mu\text{A}$ , $I_F = 1.0\text{ mA}$ )		$V_{CE(sat)}$	—	0.35	0.4	V
Turn–On Time ( $I_C = 2.0\text{ mA}$ , $V_{CC} = 10\text{ V}$ , $R_L = 100\ \Omega$ )		$t_{on}$	—	7.5	—	$\mu\text{s}$
Turn–Off Time ( $I_C = 2.0\text{ mA}$ , $V_{CC} = 10\text{ V}$ , $R_L = 100\ \Omega$ )		$t_{off}$	—	5.7	—	$\mu\text{s}$
Rise Time ( $I_C = 2.0\text{ mA}$ , $V_{CC} = 10\text{ V}$ , $R_L = 100\ \Omega$ )		$t_r$	—	3.2	—	$\mu\text{s}$
Fall Time ( $I_C = 2.0\text{ mA}$ , $V_{CC} = 10\text{ V}$ , $R_L = 100\ \Omega$ )		$t_f$	—	4.7	—	$\mu\text{s}$
Input–Output Isolation Voltage ( $f = 60\text{ Hz}$ , $t = 1.0\text{ sec.}$ ) <sup>(1,2)</sup>		$V_{ISO}$	3000	—	—	Vac(rms)
Isolation Resistance ( $V_{I-O} = 500\text{ V}$ ) <sup>(2)</sup>		$R_{ISO}$	$10^{11}$	—	—	$\Omega$
Isolation Capacitance ( $V_{I-O} = 0$ , $f = 1.0\text{ MHz}$ ) <sup>(2)</sup>		$C_{ISO}$	—	0.2	—	pF

1. Input–Output Isolation Voltage,  $V_{ISO}$ , is an internal device dielectric breakdown rating.
2. For this test, pins 1 and 2 are common, and pins 5, 6 and 7 are common.
3. Refer to Quality and Reliability Section in Opto Data Book for information on test conditions.
4. Always design to the specified minimum/maximum electrical limits (where applicable).
5. Current Transfer Ratio (CTR) =  $I_C/I_F \times 100\%$ .

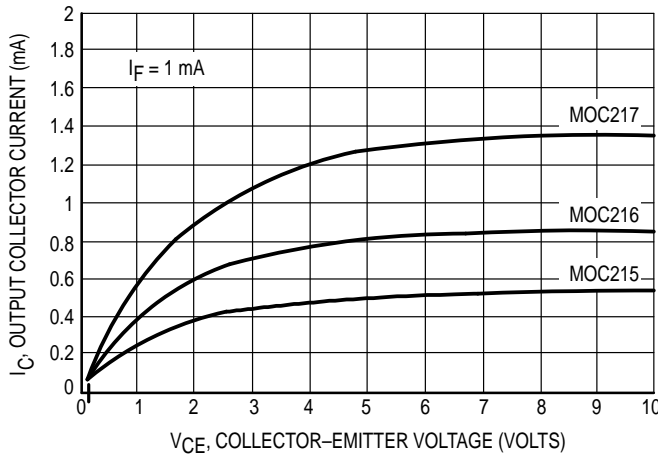
**TYPICAL CHARACTERISTICS**



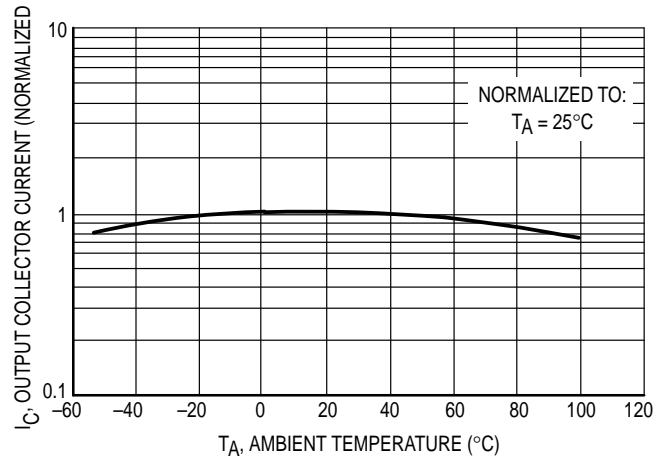
**Figure 1. LED Forward Voltage versus Forward Current**



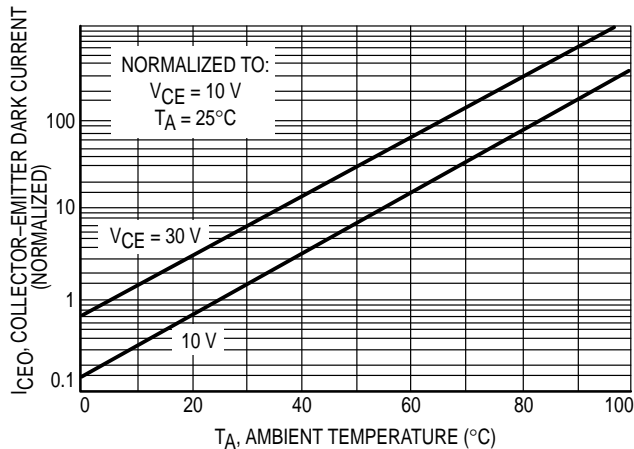
**Figure 2. Output Current versus Input Current**



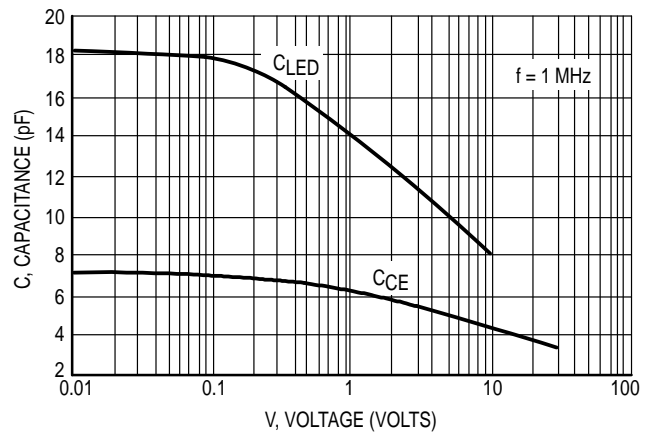
**Figure 3. Output Current versus Collector-Emitter Voltage**



**Figure 4. Output Current versus Ambient Temperature**

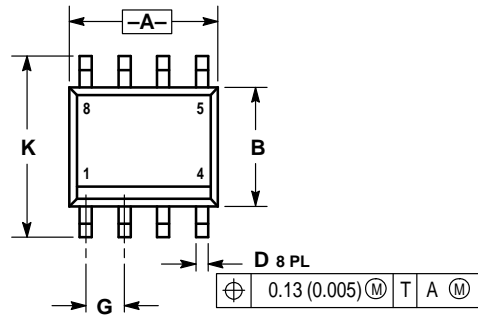


**Figure 5. Dark Current versus Ambient Temperature**



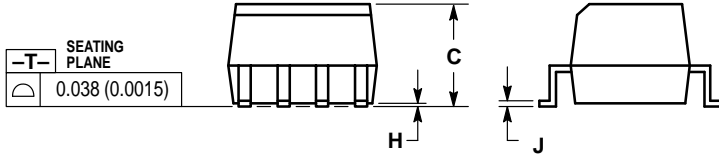
**Figure 6. Capacitance versus Voltage**

**PACKAGE DIMENSIONS**



- NOTES:  
 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.  
 2. CONTROLLING DIMENSION: INCH.

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.182	0.202	4.63	5.13
B	0.144	0.164	3.66	4.16
C	0.123	0.143	3.13	3.63
D	0.011	0.021	0.28	0.53
G	0.050 BSC		1.27 BSC	
H	0.003	0.008	0.08	0.20
J	0.006	0.010	0.16	0.25
K	0.224	0.244	5.69	6.19



- STYLE 1:  
 PIN 1. ANODE  
 2. CATHODE  
 3. NC  
 4. NC  
 5. EMITTER  
 6. COLLECTOR  
 7. BASE  
 8. NC

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MOC215-M

SO8 Phototransistor Coupler

## Contents

[General description](#) | [Applications](#) | [Ordering information](#) | [Product status/pricing/packaging](#) | [Safety agency certificates](#)

## General description

These devices consist of a gallium arsenide infrared emitting diode optically coupled to a monolithic silicon phototransistor detector, in a surface mountable, small outline, plastic package. They are ideally suited for high density applications and eliminate the need for through-the-board mounting.

- Convenient plastic SOIC-8 surface mountable package style
- Low LED input current required, for easier logic interfacing
- Standard SOIC-8 footprint, with a 0.050-inch lead spacing
- Compatible with dual wave, vapor phase and IR reflow soldering
- High input - Output isolation of 3000 VAC (RMS) guaranteed
- Underwriters Laboratory (UL) recognized - File #E90700, Volume 2

[back to top](#)

## Applications

- Low power logic circuits
- Interfacing and coupling systems of different potentials and impedances
- Telecommunications equipment
- Portable electronics

## Datasheet

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This page

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[back to top](#)

## Ordering information

The following options can be ordered with this part:

Option	Order Entry Identifier	Description
R1	R1	Surface-Mount Lead Bend Tape and Reel (500-pc reel)
R2	R2	Surface-Mount Lead Bend Tape and Reel (2500-pc reel)

[back to top](#)

## Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
MOC215-M	Full Production	\$0.264	SOIC	8	RAIL
MOC215R1-M	Full Production	\$0.273	SOIC	8	TAPE REEL
MOC215R2-M	Full Production	\$0.273	SOIC	8	TAPE REEL

\* 1,000 piece Budgetary Pricing

[back to top](#)

## Safety agency certificates

Certificate	Agency	
<a href="#">8460,8461</a> (171 K)	BSI	British Standards Institution
<a href="#">136616</a> (161 K)	VDE	VDE Pruf-und Zertifizierungsinstitut
<a href="#">E90700, Vol. 2</a> (254 K)	UL	Underwriters Laboratories Inc.

[back to top](#)

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SO8 Phototransistor Coupler

## Contents

[General description](#) | [Applications](#) | [Ordering information](#) | [Product status/pricing/packaging](#) | [Safety agency certificates](#)

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[back to top](#)

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This page

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[back to top](#)

## Ordering information

The following options can be ordered with this part:

Option	Order Entry Identifier	Description
R1	R1	Surface-Mount Lead Bend Tape and Reel (500-pc reel)
R2	R2	Surface-Mount Lead Bend Tape and Reel (2500-pc reel)

[back to top](#)

## Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
MOC216-M	Full Production	\$0.281	SOIC	8	RAIL
MOC216R1-M	Full Production	\$0.291	SOIC	8	TAPE REEL
MOC216R2-M	Full Production	\$0.291	SOIC	8	TAPE REEL

\* 1,000 piece Budgetary Pricing

[back to top](#)

## Safety agency certificates

Certificate	Agency	
<a href="#">8460,8461</a> (171 K)	BSI	British Standards Institution
<a href="#">136616</a> (161 K)	VDE	VDE Pruf-und Zertifizierungsinstitut
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[back to top](#)

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MOC217-M

SO8 Phototransistor Coupler

## Contents

[General description](#) | [Applications](#) | [Ordering information](#) | [Product status/pricing/packaging](#) | [Safety agency certificates](#)

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[back to top](#)

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[back to top](#)

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R2	R2	Surface-Mount Lead Bend Tape and Reel (2500-pc reel)

[back to top](#)

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MOC217R1-M	Full Production	\$0.291	SOIC	8	TAPE REEL
MOC217R2-M	Full Production	\$0.291	SOIC	8	TAPE REEL

\* 1,000 piece Budgetary Pricing

[back to top](#)

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[back to top](#)

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## Contents

[4N](#) | [CNY](#) | [H11](#) | [MCT](#) | [MOC](#) |

## Datasheets for products beginning with 4N

<a href="#">4N25-M</a>	4N25A-M obsoleted, no replacement	<a href="#">4N26-M</a>
<a href="#">4N27-M</a>	<a href="#">4N28-M</a>	4N29-M replaced by <a href="#">4N29</a>
4N29A-M replaced by <a href="#">4N29</a>	4N30-M replaced by <a href="#">4N30</a>	4N31-M replaced by <a href="#">4N31</a>
4N32-M replaced by <a href="#">4N32</a>	4N33-M replaced by <a href="#">4N33</a>	<a href="#">4N35-M</a>
<a href="#">4N36-M</a>	<a href="#">4N37-M</a>	4N38-M replaced by <a href="#">4N38</a>
4N38A-M replaced by <a href="#">4N38</a>		

[back to top](#)

## Datasheets for products beginning with CNY

<a href="#">CNY17-1-M</a>	<a href="#">CNY17-2-M</a>	<a href="#">CNY17-3-M</a>
---------------------------	---------------------------	---------------------------

[back to top](#)

## Datasheets for products beginning with H11

<a href="#">H11A1-M</a>	H11AA1-M replaced by <a href="#">H11AA1</a>	H11AA2-M replaced by <a href="#">H11AA2</a>
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<a href="#">H11AV1A-M</a>	<a href="#">H11AV2-M</a>	<a href="#">H11AV2A-M</a>
H11B1-M replaced by <a href="#">H11B1</a>	H11B3-M replaced by <a href="#">H11B3</a>	H11D1-M replaced by <a href="#">H11D1</a>
H11D2-M replaced by <a href="#">H11D2</a>	H11G1-M replaced by <a href="#">H11G1</a>	H11G2-M replaced by <a href="#">H11G2</a>
H11G3-M replaced by <a href="#">H11G3</a>	<a href="#">H11L1-M</a>	<a href="#">H11L2-M</a>
<a href="#">H11L3-M</a>		

[back to top](#)

.

Datasheets for products beginning with MCT

<a href="#">MCT2-M</a>	<a href="#">MCT2E-M</a>	
------------------------	-------------------------	--

[back to top](#)

.

Datasheets for products beginning with MOC

<a href="#">MOC205-M</a>	<a href="#">MOC206-M</a>	<a href="#">MOC207-M</a>
<a href="#">MOC208-M</a>	<a href="#">MOC211-M</a>	<a href="#">MOC212-M</a>
<a href="#">MOC213-M</a>	<a href="#">MOC215-M</a>	<a href="#">MOC216-M</a>
<a href="#">MOC217-M</a>	<a href="#">MOC223-M</a>	<a href="#">MOC256-M</a>
<a href="#">MOC3010-M</a>	<a href="#">MOC3011-M</a>	<a href="#">MOC3012-M</a>
<a href="#">MOC3020-M</a>	<a href="#">MOC3021-M</a>	<a href="#">MOC3022-M</a>
<a href="#">MOC3023-M</a>	<a href="#">MOC3031-M</a>	<a href="#">MOC3032-M</a>
<a href="#">MOC3033-M</a>	<a href="#">MOC3041-M</a>	<a href="#">MOC3042-M</a>
<a href="#">MOC3043-M</a>	<a href="#">MOC3051-M</a>	<a href="#">MOC3052-M</a>
<a href="#">MOC3061-M</a>	<a href="#">MOC3062-M</a>	<a href="#">MOC3063-M</a>
<a href="#">MOC3081-M</a>	<a href="#">MOC3081-M</a>	<a href="#">MOC3083-M</a>
<a href="#">MOC3162-M</a>	<a href="#">MOC3163-M</a>	<a href="#">MOC5007-M</a>
<a href="#">MOC5008-M</a>	<a href="#">MOC5009-M</a>	MOC8030-M replaced by <a href="#">MOC8030</a>

MOC8050-M replaced by <a href="#">MOC8050</a>	MOC8080-M replaced by <a href="#">MOC8080</a>	<a href="#">MOC8100-M</a>
MOC8204-M replaced by <a href="#">MOC8204</a>	<a href="#">MOCD207-M</a>	<a href="#">MOCD208-M</a>
<a href="#">MOCD211-M</a>	<a href="#">MOCD213-M</a>	<a href="#">MOCD217-M</a>
<a href="#">MOCD223-M</a>		

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