

Low Capacitance Bi-Directional Surface Mount Thyristor Surge Protective Device

 Lead(Pb)-Free

Feature:

- * Peak Off-State Voltage from 90 to 360 Volts.
- * Meet IEC61000-4-4 & -5 Industry Requirement.
- * Provides Protection in Accordance with FCC Part 68, UL1459, Bellcore 1089, ITU-TK. 20 & K. 21.
- * UL94V-0 Flammability Classification.
- * ESD Protection >40 kilovolts.
- * Low Capacitance for T1/E1 Trunk and Line Card Application.
- * High Surge Current Capability.

Mechanical Data

- * Case: JEDEC DO214AA. Molded Plastic Over Glass Passivated Junction
- * Terminal: Solder Plated, Solderable per MIL-STD-750, Method 2026
- * Standard Packaging: 12mm tape(EIA STD RS-481)
- * Weight: 0.093 gram

I_{pp}
50 / 75 / 100 AMPERES

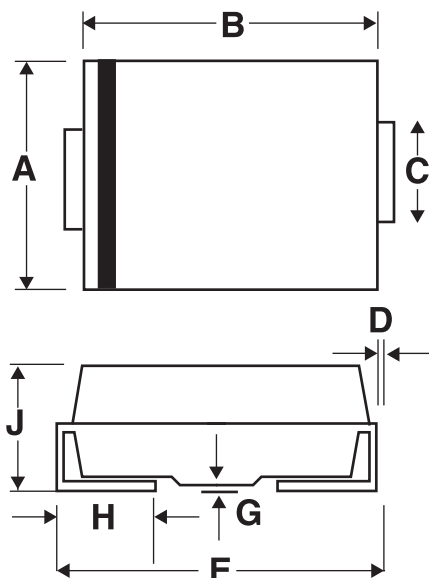
V_{DRM}
90-360 VOLTS



SMB(DO-214AA)

SMB Outline Dimension

Unit:mm



| SMB | | |
|----------|------|------|
| Dim | Min | Max |
| A | 3.30 | 3.94 |
| B | 4.06 | 4.80 |
| C | 1.96 | 2.21 |
| D | 0.15 | 0.31 |
| E | 5.00 | 5.59 |
| G | 0.10 | 0.20 |
| H | 0.76 | 1.52 |
| J | 2.00 | 2.62 |

Maximum Ratings

| PART NUMBER | MARKING CODE | REPETITIVE PEAK OFF-STAGE VOLTAGE V_{DRM} VOLTS | SWITCHING VOLTAGE @100V/us V_s VOLTS | MINIMUM HOLDING CURRENT $di/dt=1A/ms$ I_H mA | SWITCHING CURRENT I_s mA | SURGE RATINGS I_{PP} $10^*1000\mu S$ Amps | ON-STAGE CURRENT I_T A | TYPICAL CAPACITANCE @2V,1MHz μF |
|-------------|--------------|---|--|---|----------------------------------|--|--------------------------------|--|
| T110AB-LC | GF | 90 | 130 | 150 | 800 | 50 | 2.2 | 100 |
| T130AB-LC | GG | 120 | 160 | 150 | 800 | 50 | 2.2 | 80 |
| T150AB-LC | GH | 140 | 180 | 150 | 800 | 50 | 2.2 | 70 |
| T180AB-LC | GI | 160 | 220 | 150 | 800 | 50 | 2.2 | 70 |
| T230AB-LC | GJ | 190 | 260 | 150 | 800 | 50 | 2.2 | 50 |
| T260AB-LC | GK | 220 | 300 | 150 | 800 | 50 | 2.2 | 50 |
| T310AB-LC | GL | 275 | 350 | 150 | 800 | 50 | 2.2 | 40 |
| T350AB-LC | GM | 300 | 400 | 150 | 800 | 50 | 2.2 | 40 |
| T400AB-LC | GO | 360 | 450 | 150 | 800 | 50 | 2.2 | 40 |
| T110BB-LC | GS | 90 | 130 | 150 | 800 | 75 | 2.2 | 130 |
| T130BB-LC | GT | 120 | 160 | 150 | 800 | 75 | 2.2 | 120 |
| T150BB-LC | GU | 140 | 180 | 150 | 800 | 75 | 2.2 | 120 |
| T180BB-LC | GV | 160 | 220 | 150 | 800 | 75 | 2.2 | 100 |
| T230BB-LC | GW | 190 | 260 | 150 | 800 | 75 | 2.2 | 80 |
| T260BB-LC | GX | 220 | 300 | 150 | 800 | 75 | 2.2 | 80 |
| T310BB-LC | GY | 275 | 350 | 150 | 800 | 75 | 2.2 | 60 |
| T350BB-LC | GZ | 300 | 400 | 150 | 800 | 75 | 2.2 | 60 |
| T400BB-LC | GN | 360 | 400 | 150 | 800 | 75 | 2.2 | 60 |
| T110CB-LC | HF | 90 | 130 | 150 | 800 | 100 | 2.2 | 150 |
| T130CB-LC | HG | 120 | 160 | 150 | 800 | 100 | 2.2 | 140 |
| T150CB-LC | HH | 140 | 180 | 150 | 800 | 100 | 2.2 | 140 |
| T180CB-LC | HI | 160 | 220 | 150 | 800 | 100 | 2.2 | 125 |
| T230CB-LC | HJ | 190 | 260 | 150 | 800 | 100 | 2.2 | 100 |
| T260CB-LC | HK | 220 | 300 | 150 | 800 | 100 | 2.2 | 100 |
| T310CB-LC | HL | 275 | 350 | 150 | 800 | 100 | 2.2 | 80 |
| T350CB-LC | HM | 300 | 400 | 150 | 800 | 100 | 2.2 | 80 |
| T400CB-LC | HS | 360 | 450 | 150 | 800 | 100 | 2.2 | 80 |

Maximum Off-State Current @ V_{DRM} : 5 μA

Maximum On-State Voltage @ I_T : 5volts

RATINGS AND CHARACTERISTIC CURVES ($T_A=25^\circ C$ unless otherwise noted)

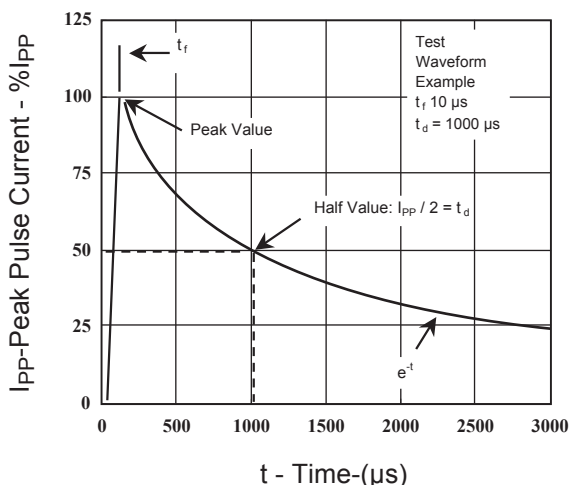


Fig.1 Pulse Wave Form Example

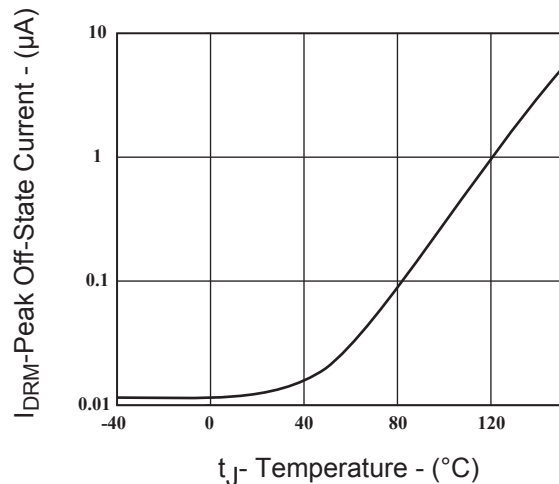


Fig.2 Typical Peak Off-State Current Vs Junction Temperature

RATINGS AND CHARACTERISTIC CURVES ($T_A=25^\circ\text{C}$ unless otherwise noted)

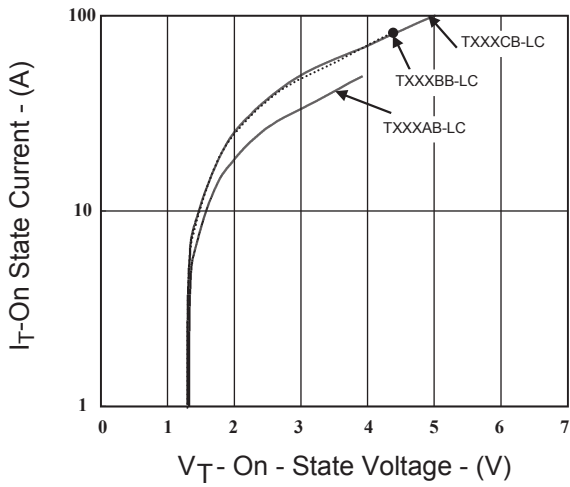


Fig.3 Typical On-State Current Vs On-State Voltage

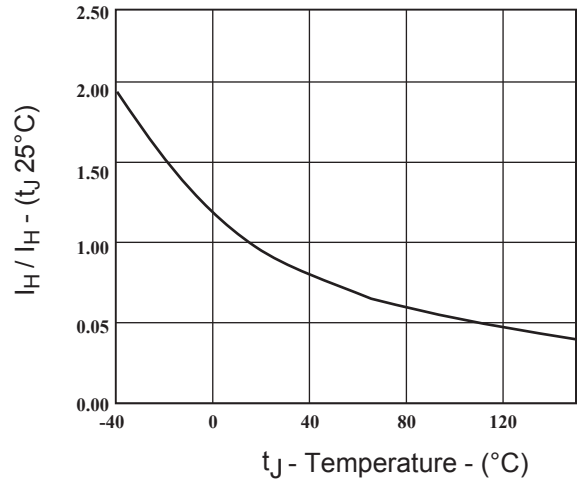


Fig.4 Typical Holding Current Vs Junction Temperature

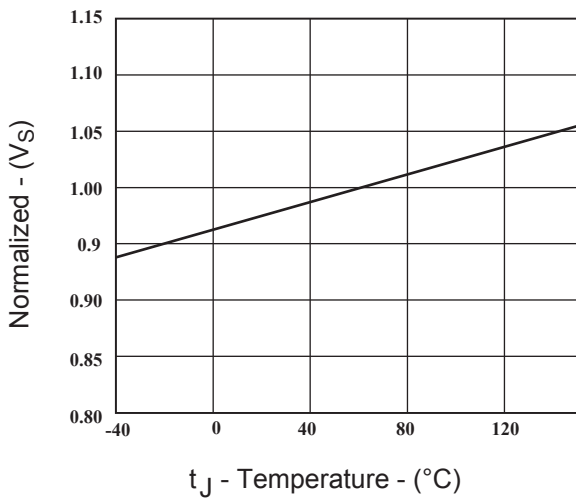


Fig.5 Typical normalized VS Vs Junction Temperature

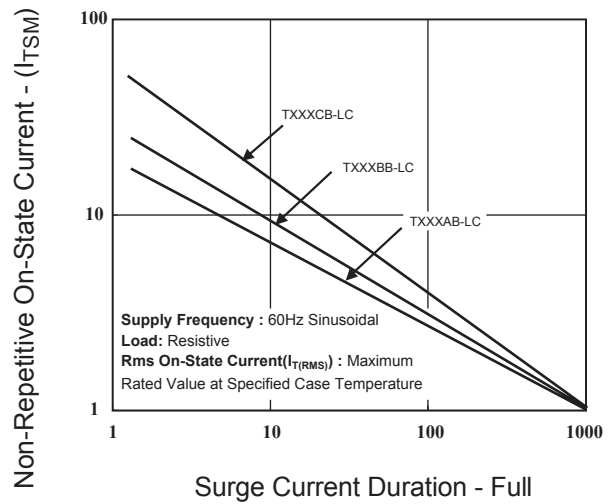


Fig.6 On-State Current Vs Surge Current

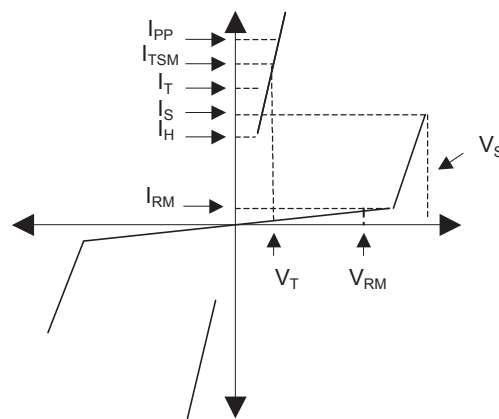


Fig.7 V - I Characteristics Curve