

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

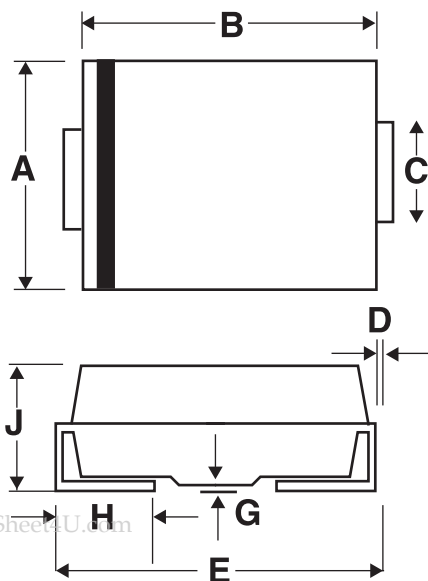
V_{DRM}
90-360 VOLTS



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} : $5\mu A$

Maximum On-State Voltage @ I_T : 5volts

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

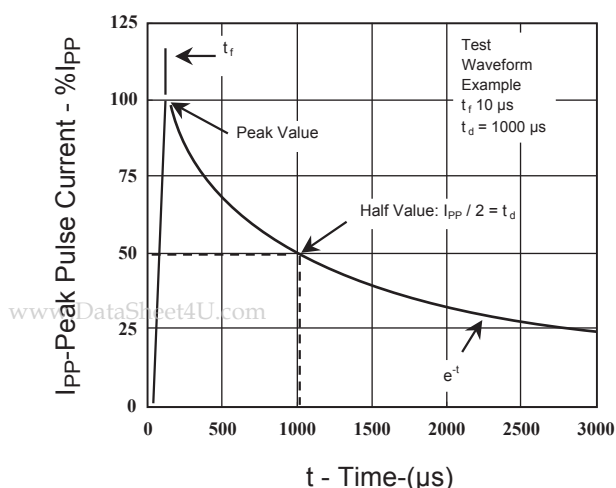


Fig.1 Pulse Wave Form Example

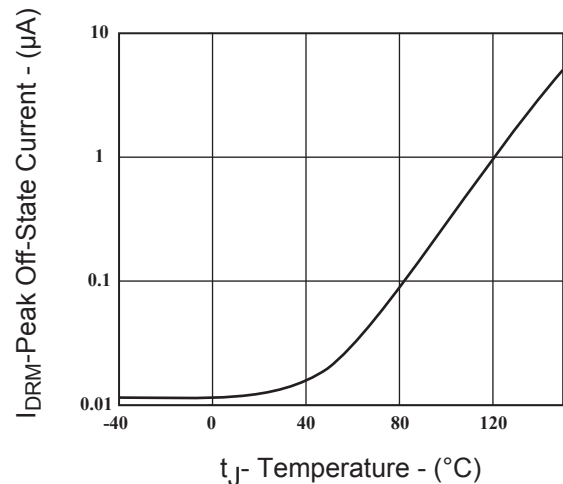


Fig.2 Typical Peak Off-State Current Vs Junction Temperature

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

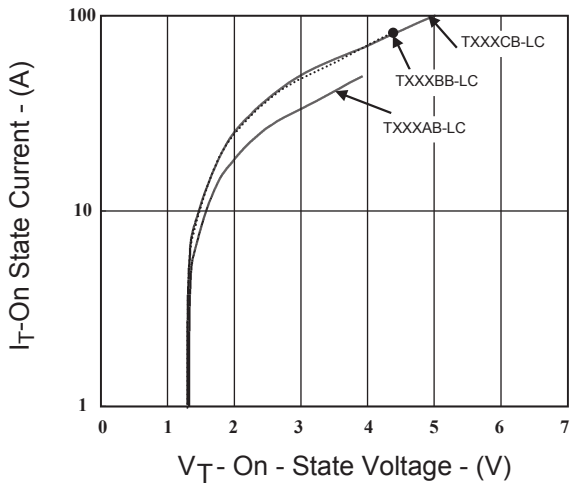


Fig.3 Typical On-State Current Vs On-State Voltage

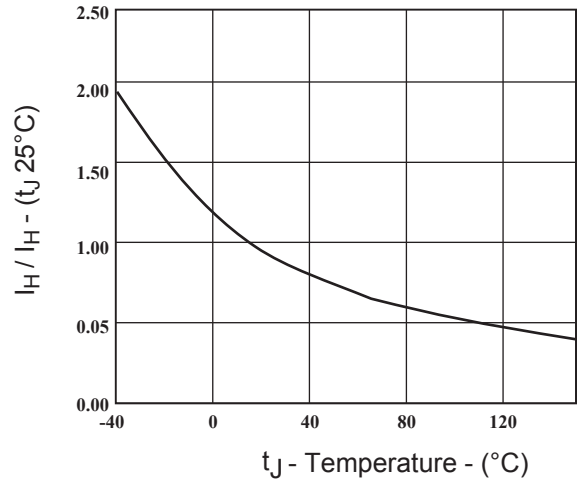


Fig.4 Typical Holding Current Vs Junction Temperature

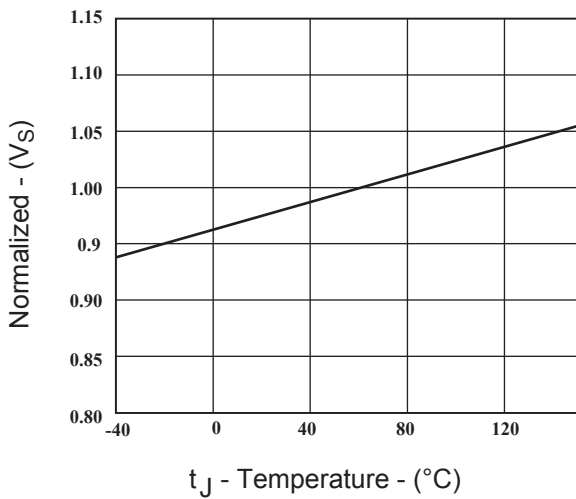


Fig.5 Typical normalized VS Vs Junction Temperature

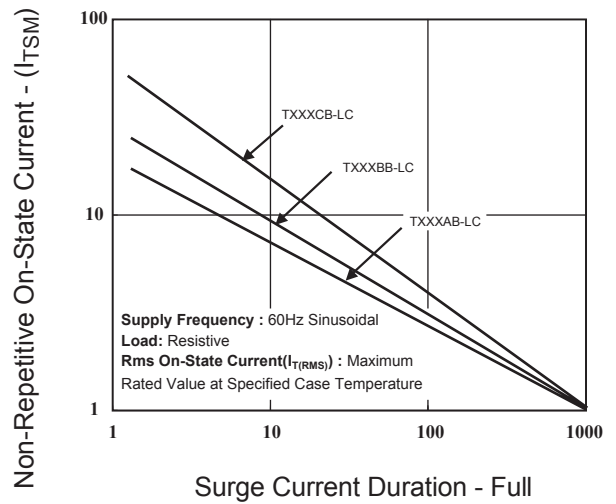


Fig.6 On-State Current Vs Surge Current

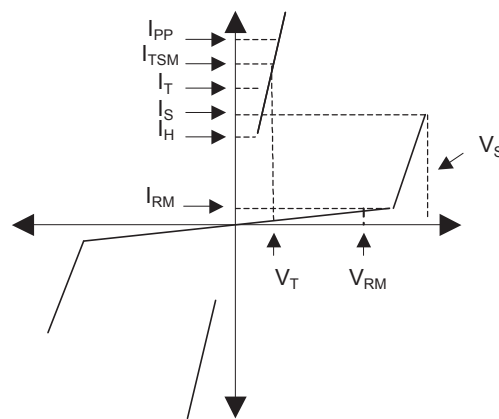


Fig.7 V - I Characteristics Curve