

## Low Capacitance Bi-Directional Surface Mount Thyristor Surge Protective Device

 Lead(Pb)-Free

### Feature:

- \* Peak Off-State Voltage from 58 to 275 Volts
- \* Meet IEC61000-4-4 & -5 Industry Requirement
- \* Provides Protection in Accordance with FCC Part 68 , UL1459, Bellcore 1089, ITU-TK.20 & k.21

### 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

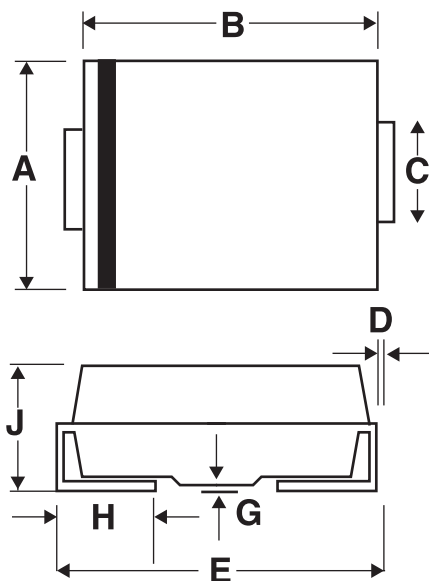
**I<sub>pp</sub>**  
50 / 75 / 100 AMPERES  
**V<sub>DRM</sub>**  
58 - 275 VOLTS



**SMB(DO-214AA)**

## SMB Outline Dimension

Unit:mm



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

## Maximum Ratings

PART NUMBER	MARKING CODE	REPETITIVE PEAK OFF-STAGE VOLTAGE	SWITCHING VOLTAGE @100V/us	MINIMUM HOLDING CURRENT dl/dt=1A/ms	SWITCHING CURRENT	SURGE RATINGS IPP	ON-STAGE CURRENT	TYPICAL CAPACITANCE @2V,1MHz
		V <sub>DRM</sub> VOLTS	V <sub>s</sub> VOLTS	I <sub>H</sub> mA	I <sub>s</sub> mA	10*1000 μS Amps	I <sub>T</sub> A	pF
T064AB-LC	GCL	58	77	150	800	50	2.2	60
T072AB-LC	GDL	65	88	150	800	50	2.2	60
T080AB-LC	GEL	75	98	150	800	50	2.2	60
T110AB-LC	GFL	90	130	150	800	50	2.2	60
T130AB-LC	GGL	120	160	150	800	50	2.2	40
T150AB-LC	GHL	140	180	150	800	50	2.2	40
T180AB-LC	GIL	160	220	150	800	50	2.2	40
T230AB-LC	GJL	190	260	150	800	50	2.2	30
T260AB-LC	GKL	220	300	150	800	50	2.2	30
T310AB-LC	GLL	275	350	150	800	50	2.2	30
T064BB-LC	GPL	58	77	150	800	75	2.2	60
T072BB-LC	GQL	65	88	150	800	75	2.2	60
T080BB-LC	GRL	75	98	150	800	75	2.2	60
T110BB-LC	GSL	90	130	150	800	75	2.2	60
T130BB-LC	GTL	120	160	150	800	75	2.2	60
T150BB-LC	GUL	140	180	150	800	75	2.2	40
T180BB-LC	GVL	160	220	150	800	75	2.2	40
T230BB-LC	GWL	190	260	150	800	75	2.2	30
T260BB-LC	GXL	220	300	150	800	75	2.2	30
T310BB-LC	GYL	275	350	150	800	75	2.2	30
T064CB-LC	HCL	58	77	150	800	100	2.2	90
T072CB-LC	HDL	65	88	150	800	100	2.2	90
T080CB-LC	HEL	75	98	150	800	100	2.2	90
T110CB-LC	HFL	90	130	150	800	100	2.2	90
T130CB-LC	HGL	120	160	150	800	100	2.2	70
T150CB-LC	HHL	140	180	150	800	100	2.2	70
T180CB-LC	HIL	160	220	150	800	100	2.2	70
T230CB-LC	HJL	190	260	150	800	100	2.2	60
T260CB-LC	HKL	220	300	150	800	100	2.2	60
T310CB-LC	HLL	275	350	150	800	100	2.2	60

Maximum Off-State Current @V<sub>DRM</sub> : 5μA  
 Maximum On-State Voltage @I<sub>T</sub> : 5volts

## RATINGS AND CHARACTERISTIC CURVES (T<sub>A</sub>=25°C unless otherwise noted)

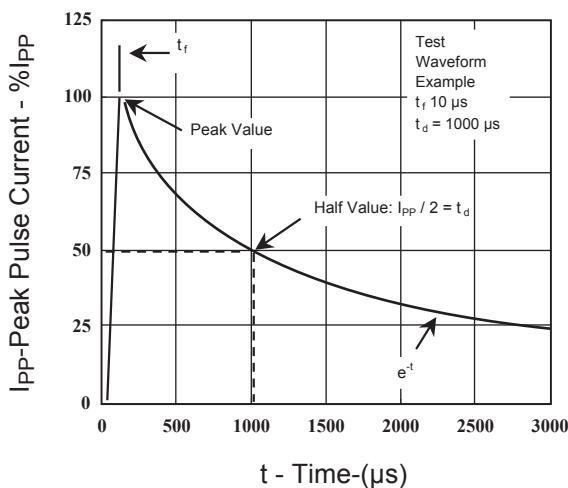


Fig.1 Pulse Wave Form Example

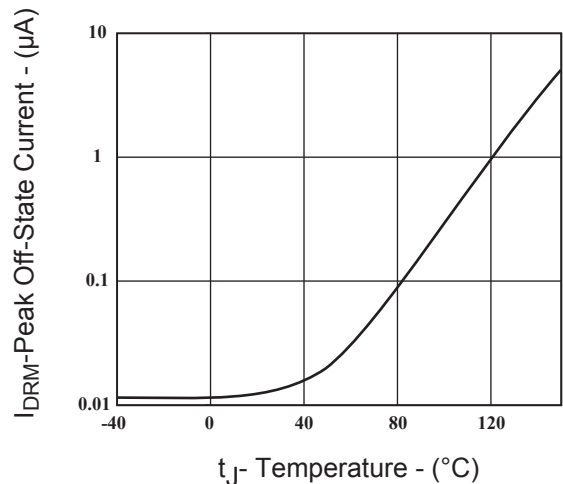


Fig.2 Typical Peak Off-State Current Vs Junction Temperature

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

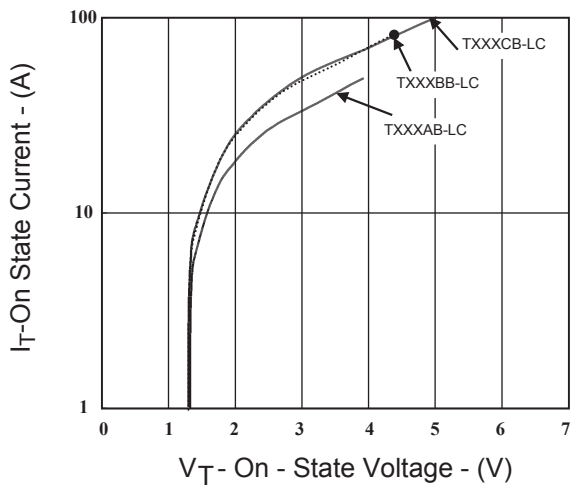


Fig.3 Typical On-State Current Vs On-State Voltage

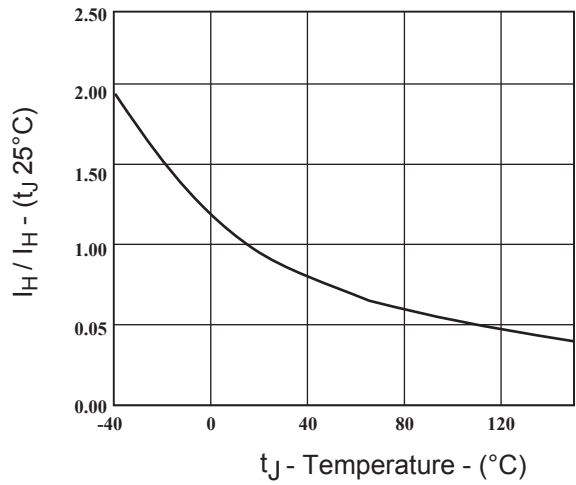


Fig.4 Typical Holding Current Vs Junction Temperature

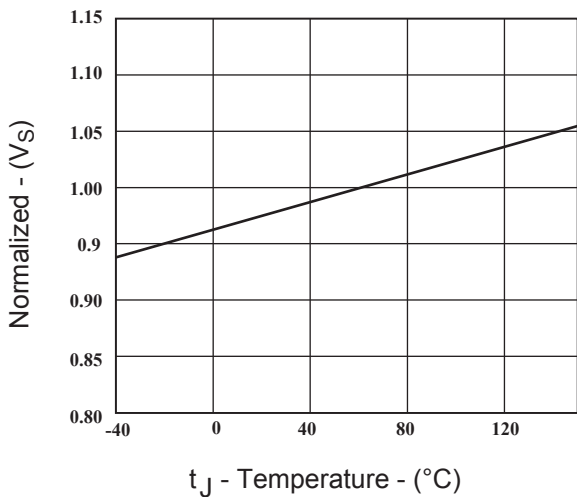


Fig.5 Typical normalized VS Vs Junction Temperature

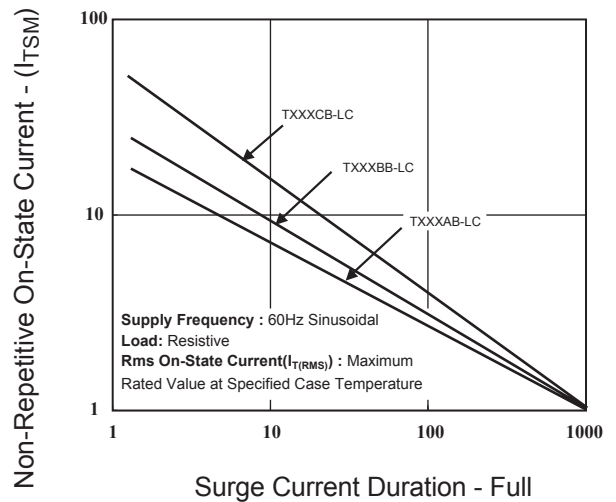


Fig.6 On-State Current Vs Surge Current

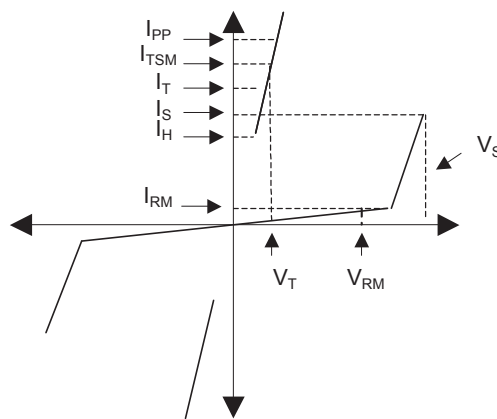


Fig.7 V - I Characteristics Curve