

DESCRIPTION

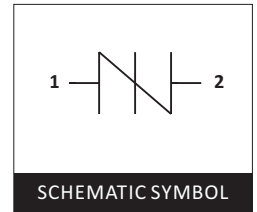
TSS-LB Thyristor solid state protection thyristor protect telecommunications equipment such as modems, line cards, fax machines, and other CPE. This Series devices are used to enable equipment to meet various regulatory requirements including GR1089, ITUK.20, K.21 and K.45, IEC 60950, and TIA-968 (formerly known as FCC Part 68).

FEATURES

- > Excellent capability of absorbing transient surge
- > Quick response to surge voltage
- > Eliminates overvoltage caused by fast rising transients
- > Solid-state silicon technology, non degenerative

APPLICATIONS

- > Audio/Video line
- > Network and telecom
- > Data lines and security systems
- > Serial ports



PART NUMBER AND ELECTRICAL PARAMETER @ T=25°C RH = 45%-75%

PART NUMBER	V _{DRM} V Min.	I _{DRM} uA Max.	V _s V Max.	I _s mA	V _T V Max.	I _T A	I _H mA	C _o pF Max.
P0080LB	6	5	25	800	4	2.2	≥50	80
P0300LB	25	5	40	800	4	2.2	≥50	70
P0640LB	58	5	77	800	4	2.2	≥120	80
P1800LB	170	5	220	800	4	2.2	≥120	80
P2300LB	190	5	260	800	4	2.2	≥120	75
P2600LB	220	5	300	800	4	2.2	≥120	75
P3100LB	275	5	350	800	4	2.2	≥120	80
P3500LB	320	5	400	800	4	2.2	≥120	80
P4200LB	390	5	500	800	4	2.2	≤50	70

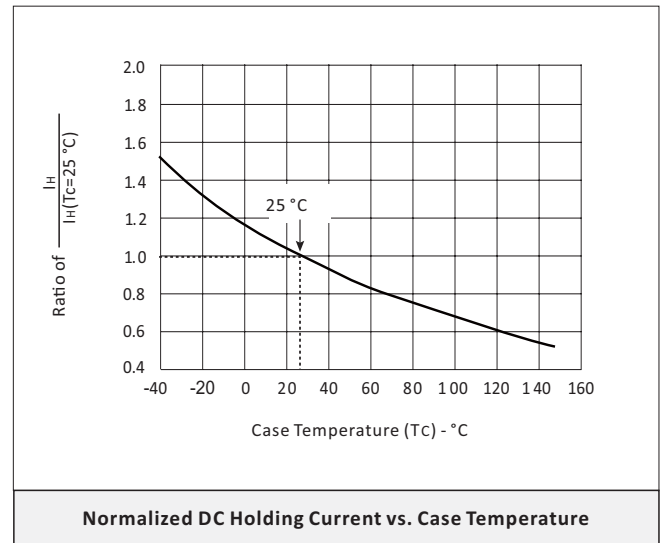
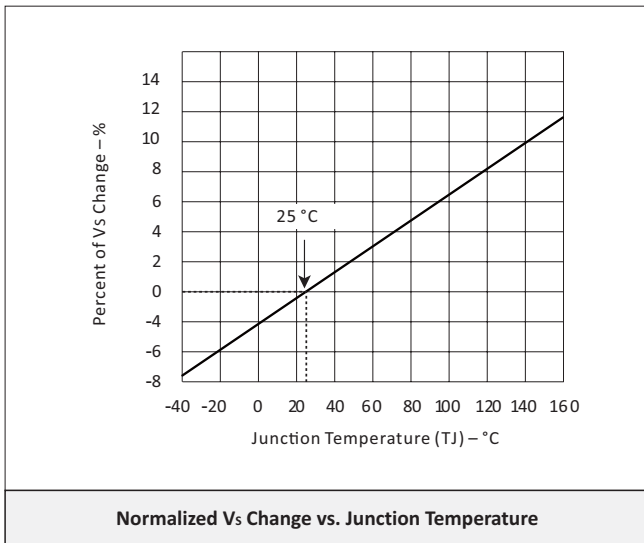
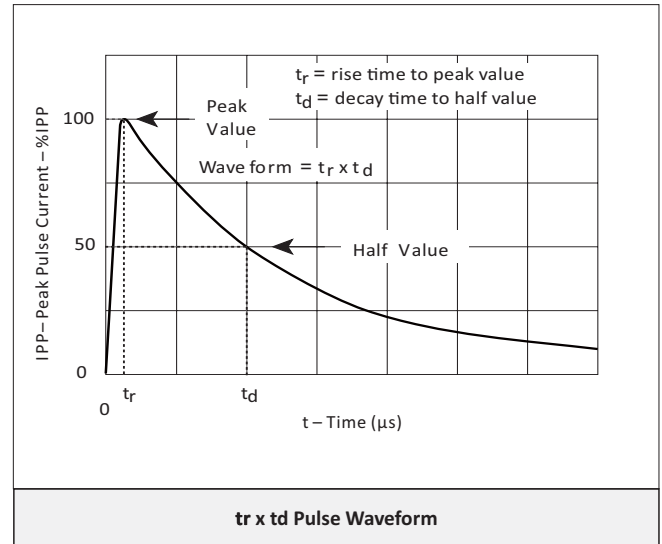
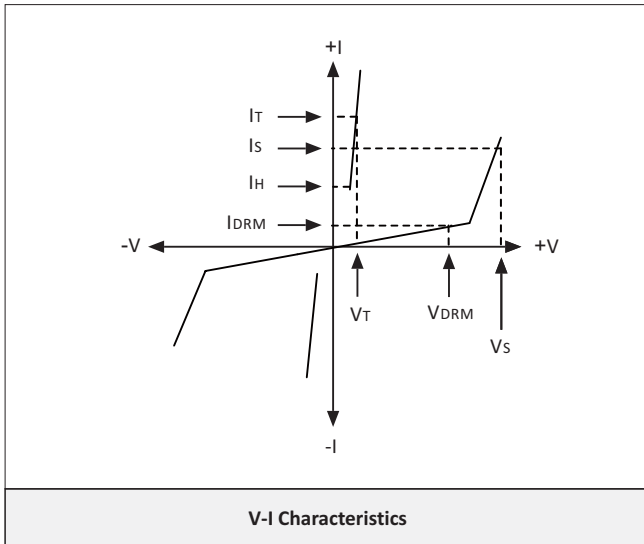
- 1、V_s is measured at 100KV/S
- 2、Off-state capacitance is measured in V_{DC}=2V, V_{RMS}=1V, F=1MHz
- 3、All measurements are made at an ambient temperature of 25°C

SURGE RATINGS

Series	IPP 2x10us (A)	IPP 8x20us (A)	IPP 10x560us (A)	IPP 10x1000us (A)	VPP 10x700us (V)	I _{TSM} 60Hz (A)	di/dt (A/us)
P0080LB Thru P4200LB	300	300	100	80	4000	32	500

THERMAL CONSIDERATIONS

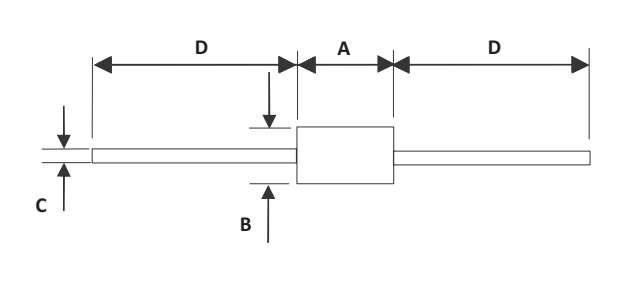
Symbol	Parameter	Value	Unit
T_J	Operating Junction Temperature	-40 to +150	$^{\circ}\text{C}$
T_s	Storage Temperature Range	-40 to +150	$^{\circ}\text{C}$
$R_{\theta JA}$	Junction to Ambient on printed circuit	90	$^{\circ}\text{C}/\text{W}$

TYPICAL DEVICE CHARACTERISTICS


ENVIRONMENTAL CHARACTERISTICS

Testing Items	Technical Standards
High Temperature Reverse Bias Test	Temperature:150±3°C,Bias=80%V _{DRM} ;Time:168H
High Temperature Life Test	Temperature:150°C;Time:168H
High-Low Temperature Cycle Test	Temperature:From -40°C to 150°C ;Dwell Time:30min,10-100 Cycles
High Temperature&High Humidity Test	Temperature:85°C.Humidity:85%; Time:168H
Pressure Cooker Test	Temperature:121°C,2 atm.Humidity:100%; Time:24H To 168H
Resistance Of Soldering Heat	Temperature:260±5°C;Time Of Dip Soldering:10s,3 Times

PRODUCT DIMENSIONS

	INCHES		MILLIMETERS	
	Min.	Max.	Min.	Max.
A	0.230	0.300	5.80	7.60
B	0.104	0.140	2.60	3.60
C	0.026	0.034	0.70	0.90
D	1.000		25.40	

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
PxxxxLB	DO-15	4000PCS	13"

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