

DESCRIPTION

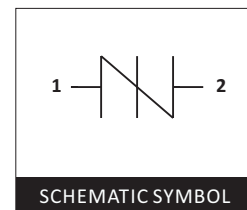
TSS-LA Thyristor solid state protection thyristor protect telecommunications equipment such as modems, line cards, fax machines, and other CPE. This Series devices are used to enable equipment to meet various regulatory requirements including GR1089, ITUK.20, K.21 and K.45, IEC 60950, and TIA-968 (formerly 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.
P0080LA	6	5	25	800	4	2.2	≥50	50
P0300LA	25	5	40	800	4	2.2	≥50	70
P0640LA	58	5	77	800	4	2.2	≥150	50
P1800LA	170	5	220	800	4	2.2	≥150	40
P2300LA	190	5	260	800	4	2.2	≥150	35
P2600LA	220	5	300	800	4	2.2	≥150	35
P3100LA	275	5	350	800	4	2.2	≥150	30
P3500LA	320	5	400	800	4	2.2	≥150	30
P4200LA	390	5	500	800	4	2.2	≤50	70

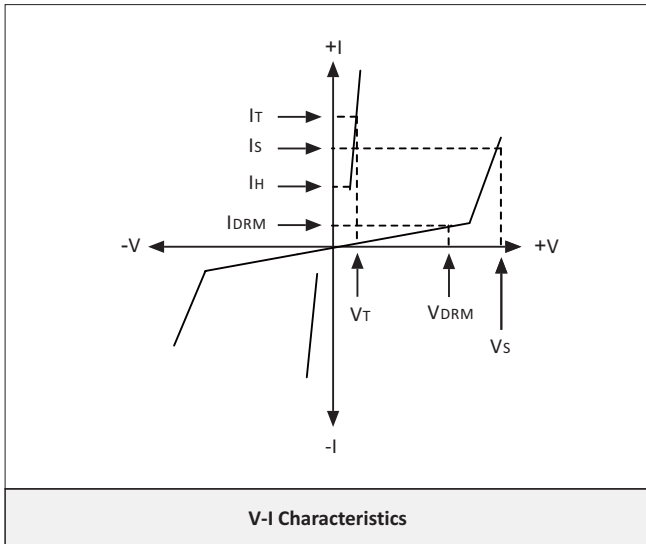
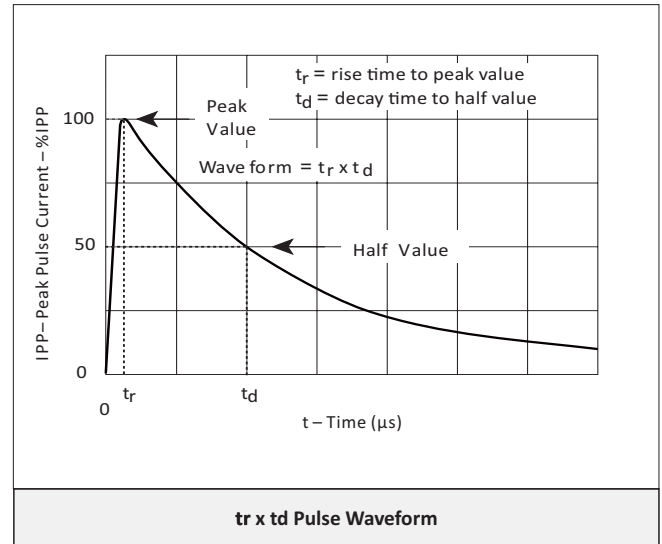
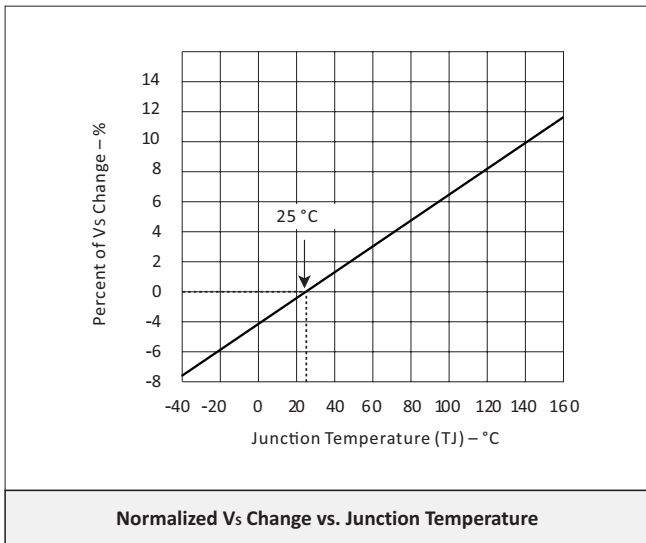
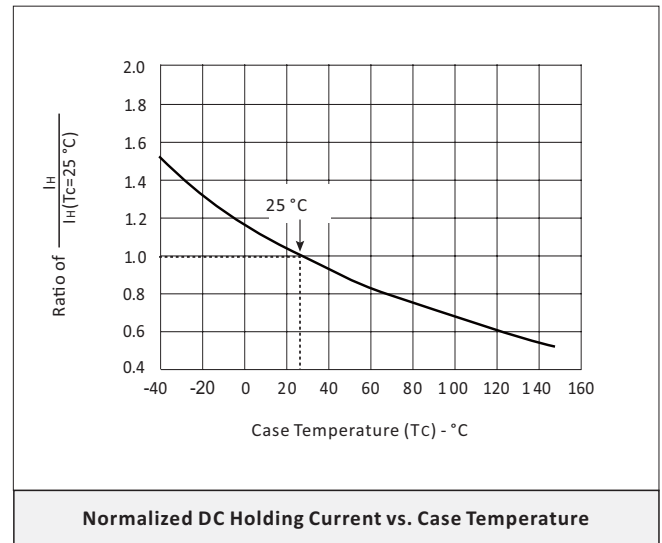
1. V_s is measured at 100KV/S
2. Off-state capacitance is measured in V_{DC}=2V, V_{RMS}=1V, F=1MHz
3. All measurements are made at an ambient temperature of 25°C

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)
P0080LA Thru P4200LA	150	150	50	45	3000	20	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	$^{\circ}\text{C}/\text{W}$

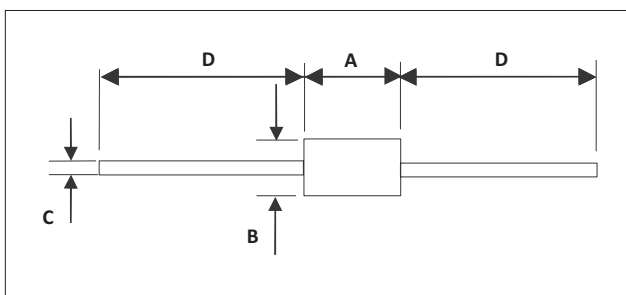
TYPICAL DEVICE CHARACTERISTICS

V-I Characteristics

 $t_r \times t_d$ Pulse Waveform

Normalized V_s Change vs. Junction Temperature

Normalized DC Holding Current vs. Case Temperature

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

DIMENSION	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
PxxxxLA	DO-15	4000PCS	13"

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