

DESCRIPTION

DO-214AA/SMB 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



DO-214AA PACKAGE



SCHEMATIC SYMBOL

PART NUMBER AND ELECTRICAL PARAMETER@25°C UNLESS OTHERWISE SPECIFIED

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 Min.	C _o pF Typ.
P0060SC	6	5	15	800	4	2.2	50	80
P0080SC	6	5	25	800	4	2.2	50	80
P0150SC	15	5	25	800	4	2.2	50	80
P0300SC	25	5	40	800	4	2.2	50	80
P0640SC	58	5	77	800	4	2.2	120	80
P0720SC	65	5	88	800	4	2.2	120	80
P0900SC	75	5	98	800	4	2.2	120	80
P1100SC	90	5	130	800	4	2.2	120	80
P1300SC	120	5	160	800	4	2.2	120	80
P1500SC	140	5	180	800	4	2.2	120	80
P1800SC	170	5	220	800	4	2.2	120	80
P2300SC	190	5	260	800	4	2.2	120	80
P2600SC	220	5	300	800	4	2.2	120	80
P3100SC	275	5	350	800	4	2.2	120	40
P3500SC	320	5	400	800	4	2.2	120	40
P4200SC	400	5	520	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



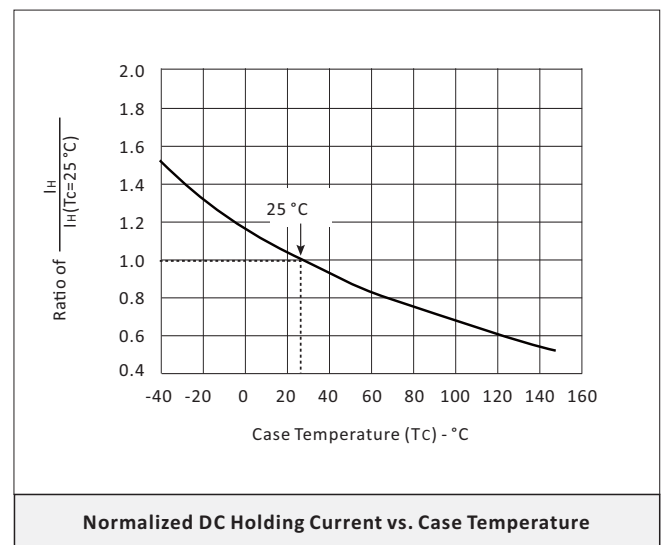
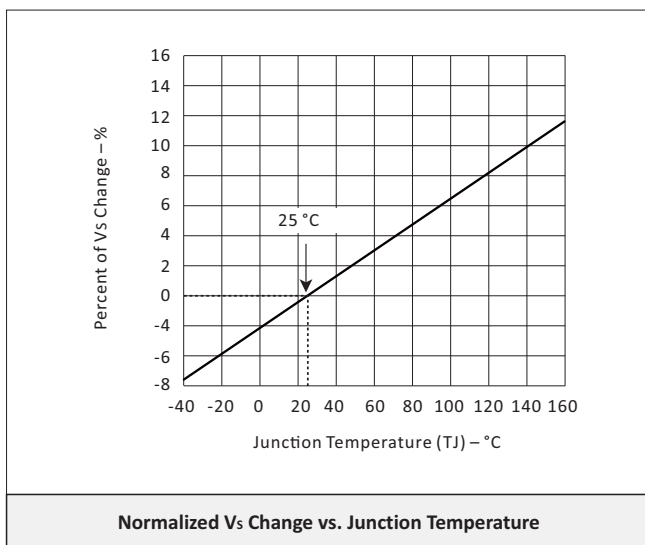
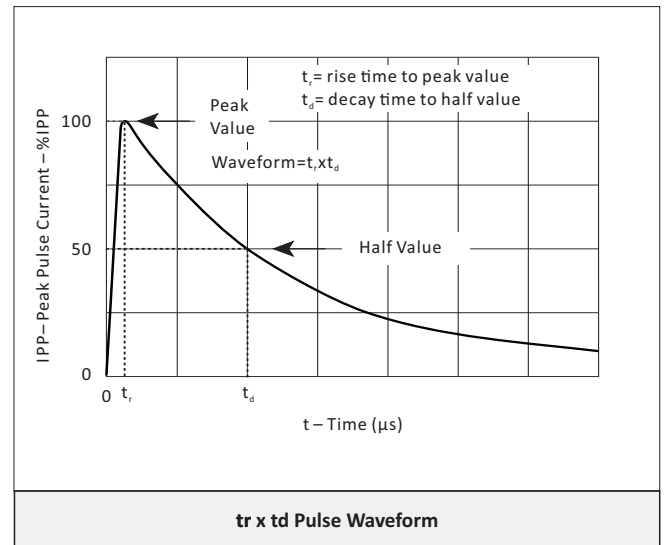
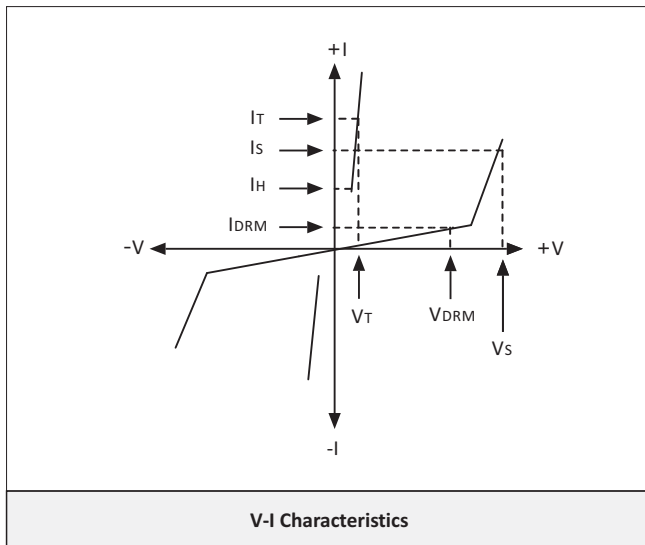
SURGE RATINGS

Series	IPP 2x10us (A)	IPP 8x20us (A)	IPP 10x560us (A)	IPP 10x1000us (A)	VPP 10x700us (V)	ITSM 60Hz (A)	di/dt (A/us)
P0060SC Thru P4200SC	500	400	150	100	6000	30	500

THERMAL CONSIDERATIONS

Symbol	Parameter	Value	Unit
T _J	Operating Junction Temperature	-40 to +150	°C
T _S	Storage Temperature Range	-40 to +150	°C
R _{θJA}	Junction to Ambient on printed circuit	90	°C/W

TYPICAL DEVICE CHARACTERISTICS



DO-214AA(SMB) PACKAGE DIMENSIONS

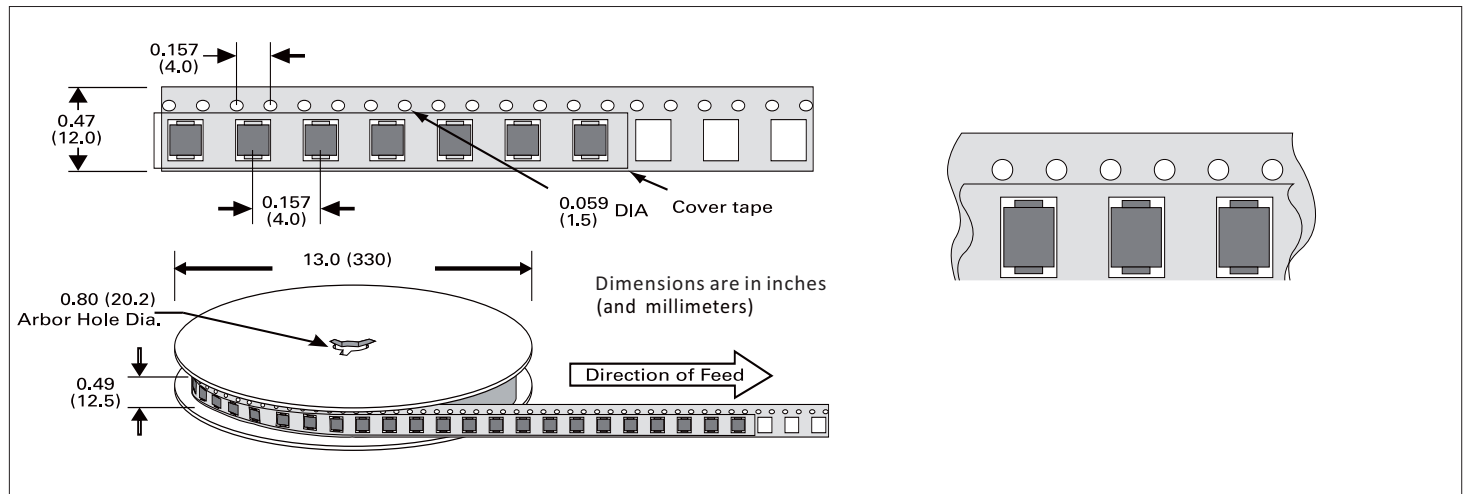
SMB PACKAGE DIMENSIONS				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.96	2.20	0.077	0.087
B	4.35	4.85	0.171	0.191
C	3.30	3.94	0.130	0.155
D	2.20	2.50	0.087	0.098
E	0.76	1.52	0.030	0.060
F	0.02	0.20	0.001	0.008
G	5.08	5.59	0.200	0.220
H	0.15	0.30	0.006	0.012

NOTES:
1. Dimensions are exclusive of mold flash and metal burrs

RECOMMENDED PAD LAYOUT DIMENSIONS

RECOMMENDED PAD LAYOUT DIMENSIONS				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	2.20	-	0.087	-
B	1.45	-	0.057	-
C	-	2.55	-	0.100
D	1.45	-	0.057	-
E	5.60 REF		0.220 REF	

TAPE AND REEL SPECIFICATION



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