

P0080SA THRU P3500SA

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
- >Non degenerative

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

Part Number	V _{DRM}	I _{DRM}	V _s	I _s	V _T	I _T	I _H	C _o
	V	μA	V	mA	V	A	mA	pF
		MAX	MAX		MAX		MIN	MAX
P0080SA	6	5	25	800	4	2.2	50	50
P0300SA	25	5	40	800	4	2.2	50	70
P0640SA	58	5	77	800	4	2.2	150	50
P0720SA	65	5	88	800	4	2.2	150	50
P0900SA	75	5	98	800	4	2.2	150	45
P1100SA	90	5	130	800	4	2.2	150	45
P1300SA	120	5	160	800	4	2.2	150	45
P1500SA	140	5	180	800	4	2.2	150	40
P1800SA	170	5	220	800	4	2.2	150	40
P2300SA	190	5	260	800	4	2.2	150	35
P2600SA	220	5	300	800	4	2.2	150	35
P3100SA	275	5	350	800	4	2.2	150	30
P3500SA	320	5	400	800	4	2.2	150	30

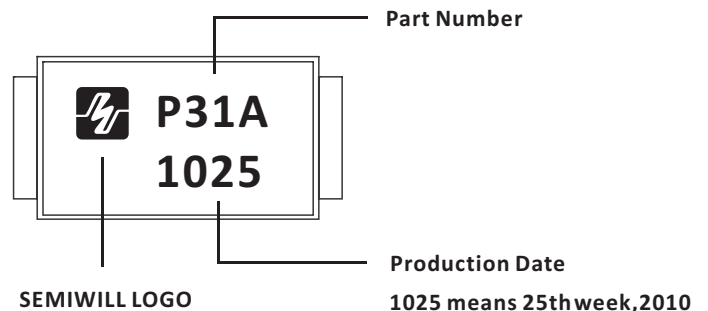
- 1、Vs is measured at 100KV/S
- 2、Off-state capacitance is measured in V_{DC}=2V,V_{RMS}=1V,F=1MHz
- 3、All measurements are made at an ambient temperature of 25°C
- 4、Rating Surge Voltage: 3KV(10/700uS)

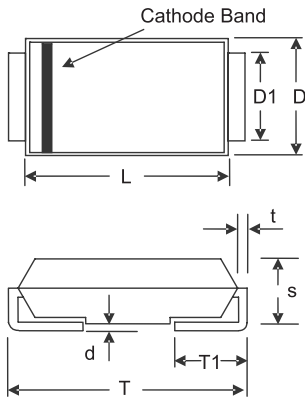
PART NUMBERING SYSTEM

P **3100** **SA**
 (1) (2) (3)

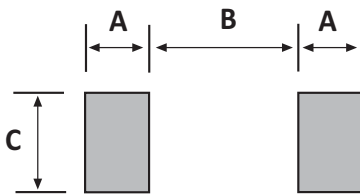
- (1) Thyristor Surge Suppressor
- (2) Series: 0080, 0300, 0800, 1800, 2300, 2600, 3100, 3500 etc.
- (3) Package : SMB 10/700uS:3KV

PART MARKING SYSTEM



DIMENSIONS

SMB/DO-214AA

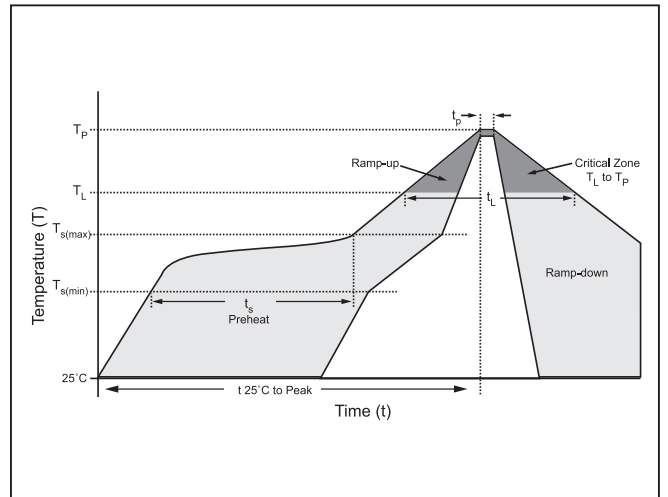
Item	Millimeters		Inches	
	Min.	Max.	Min.	Max.
L	4.06	4.57	0.160	0.180
D	3.30	3.94	0.130	0.155
D1	1.95	2.20	0.077	0.086
T	5.21	5.59	0.205	0.220
T1	0.76	1.52	0.030	0.060
d	-	0.20	-	0.008
s	2.13	2.47	0.084	0.097
t	0.152	0.31	0.006	0.012

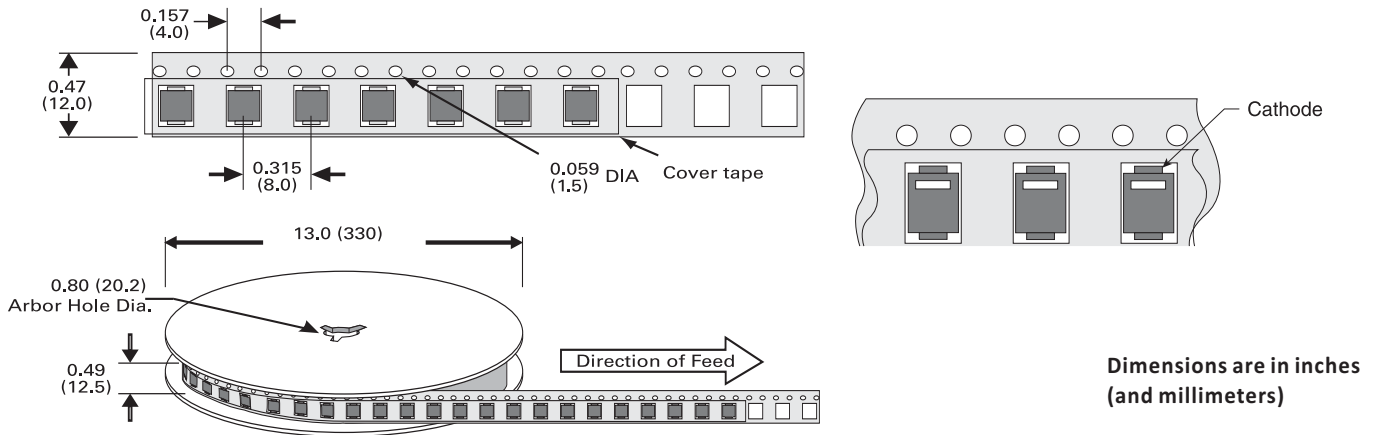



Item	Millimeters		Inchs	
	Min.	Max.	Min.	Max.
A	0.085	-	2.160	-
B	-	0.107	-	2.740
C	0.085	-	2.160	-

SOLDERING PARAMETERS

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Min ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (t_s)	60 – 180secs
Average ramp up rate (Liquidus Temp (T_L) to peak)		3°C/second max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Time (min to max) (t_s)	60 – 150seconds
Peak Temperature (T_P)		260 ^{+0/-5} °C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max.
Do not exceed		280°C



TAPE AND REEL SPECIFICATION

ORDERING INFORMATION

PART NUMBER	MARKING	COMPONENT PACKAGE	QTY/REEL	REEL SIZE
PXXXXSA	N.	DO-214AA	2500	13"
SW-PXXXXSA		DO-214AA	2500	13"

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