

Features

- Strong absorption capacity of surge
- High reliability
- Low leakage current
- Fast response time
- Meet MSL level1, per J-STD-020
- Operating Junction Temperature: -40 to +150℃
- Storage Temperature Range: -40 to +150℃

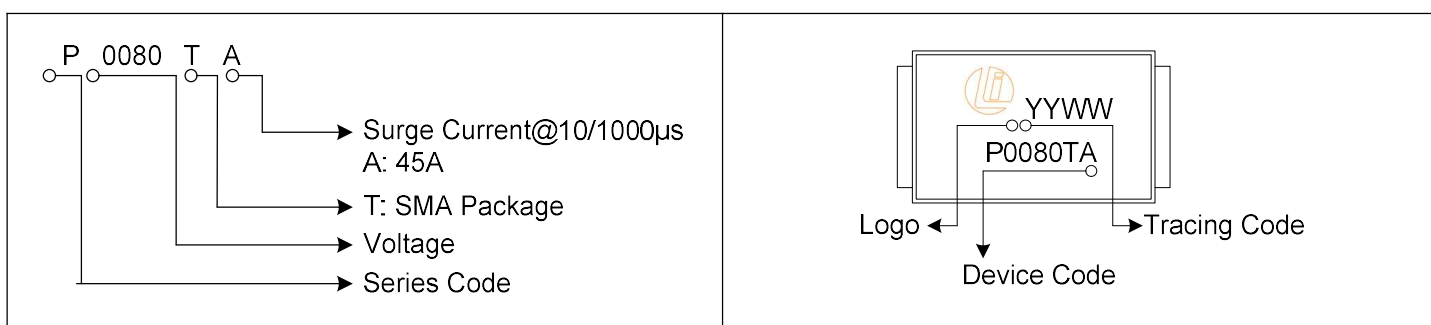
Applications

TSS components are ideal for the protection of telecommunications equipment such as modems, line cards, fax machines, and other CPE.

Electrical Characteristics (T_A=25℃)

Part Number	Peak Off-state Voltage	Off-state Current	Switching Voltage	Switching Current	On-state Voltage	On-state Current	Holding Current	Off-state Capacitance @2V, 1MHz	Peak Pulse Current @10/1000μs
	V _{DRM max.} (V)	I _{DRM max.} (μA)	V _{S max.} (V)	I _{S max.} (mA)	V _{T max.} (V)	I _{T max.} (A)	I _{H typ.} (mA)	C _{O typ.} (pF)	I _{PP} (A)
P0080TA	6	5	25	800	4	2.2	50	50	45

Part Number Code and Marking Code



Characteristic Curves ($T_A=25^\circ\text{C}$)

Figure 1. V-I Characteristics

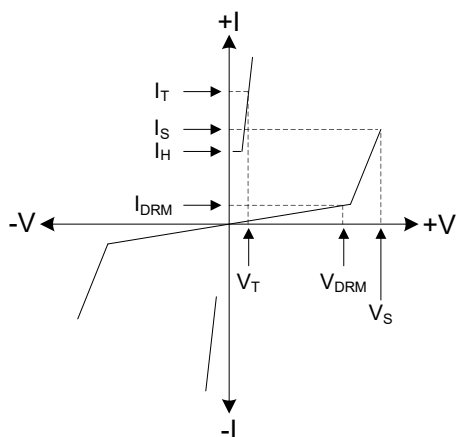


Figure 2. Pulse Waveform

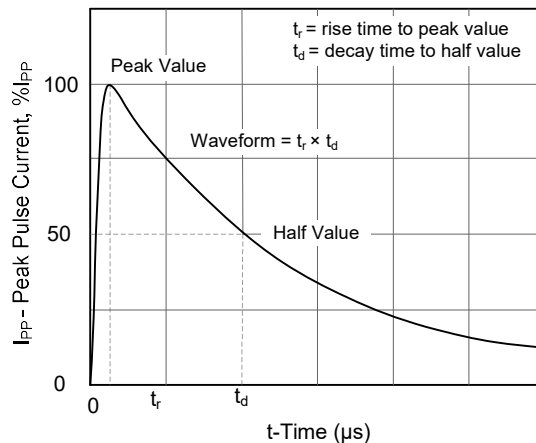


Figure 3. Normalized V_S Change versus Junction Temperature

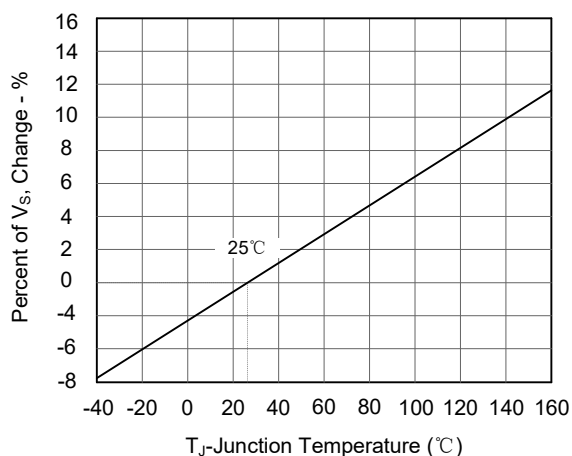
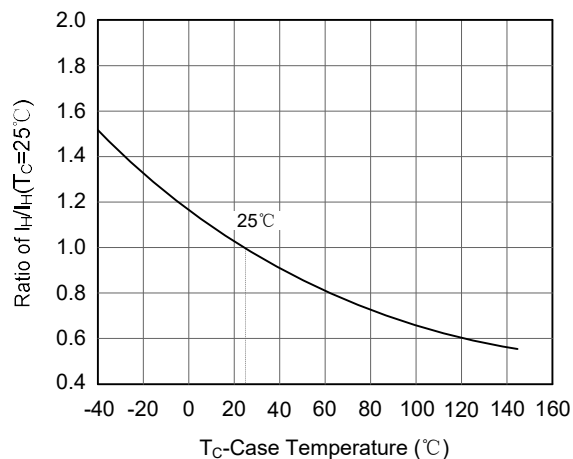
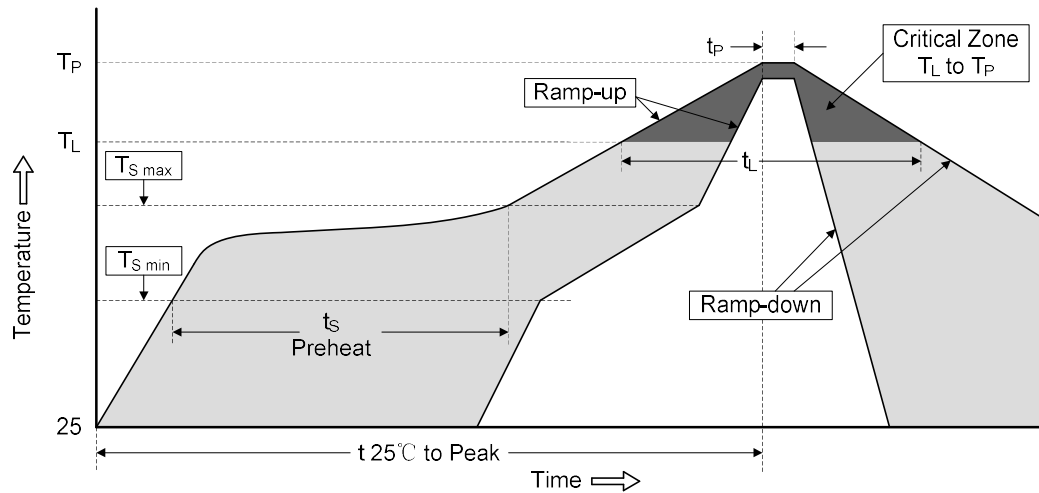


Figure 4. Normalized DC Holding Current versus Case Temperature



Soldering Parameters

Reflow Soldering



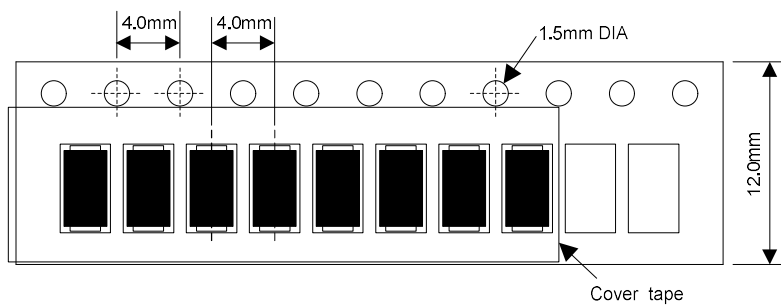
Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_P)	3°C/second max.
Preheat -Temperature Min ($T_{S \min}$) -Temperature Max ($T_{S \max}$) -Time (min to max) (t_s)	150°C 200°C 60-180 seconds
$T_{S \max}$ to T_L -Ramp-up Rate	3°C/second max.
Time maintained above: -Temperature (T_L) -Time (t_L)	217°C 60-150 seconds
Peak Temperature (T_P)	260°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	8 minutes max.

Dimensions (SMA/DO-214AC)

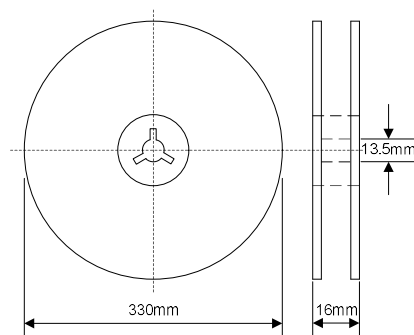
Symbol	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.250	1.650	0.049	0.065
B	3.990	4.600	0.157	0.181
C	2.400	2.790	0.095	0.110
D	1.900	2.500	0.075	0.098
E	0.760	1.520	0.030	0.060
F	-	0.203	-	0.008
G	4.800	5.280	0.189	0.208
I	1.800	-	0.070	-
J	2.100	-	0.082	-
K	-	2.300	-	0.090

Packaging Specification

Tape



13 Inches Reel



Quantity: 5000pcs/reel