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℃

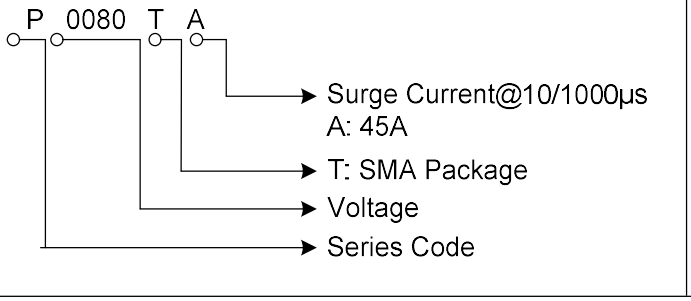
Applications

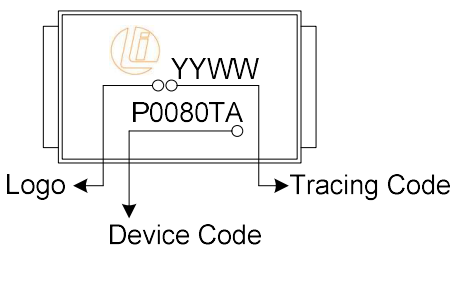
TSS components are ideal for the protection of telecommunications equipment such as modems, line cards, fax machines, and other CPE.

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℃)

Figure 1. V-I Characteristics

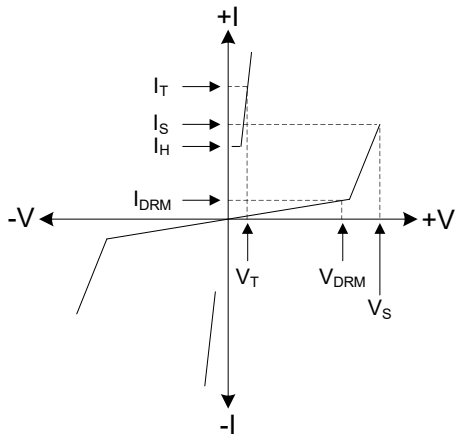


Figure 2. Pulse Waveform

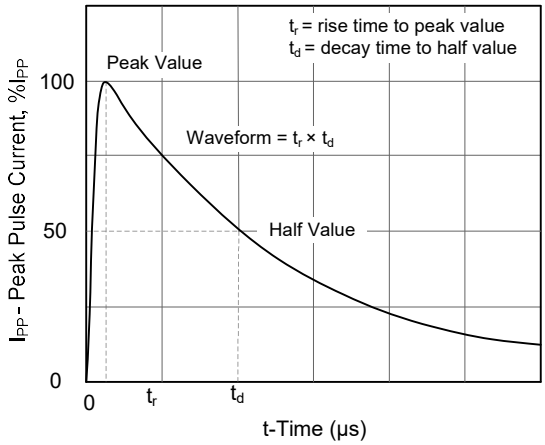


Figure 3. Normalized Vs Change versus Junction Temperature

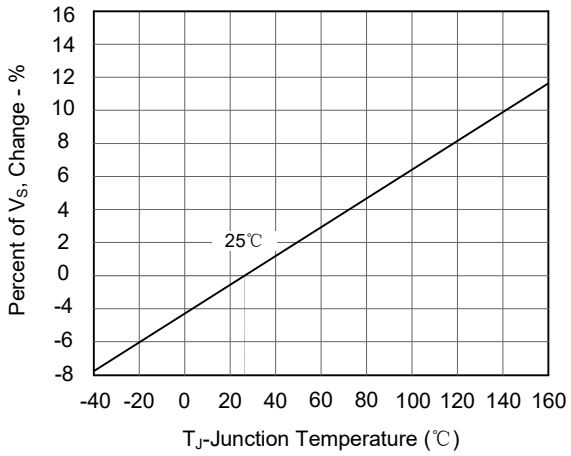
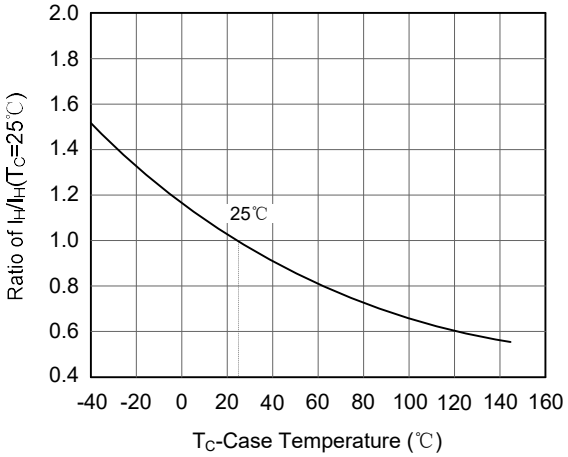
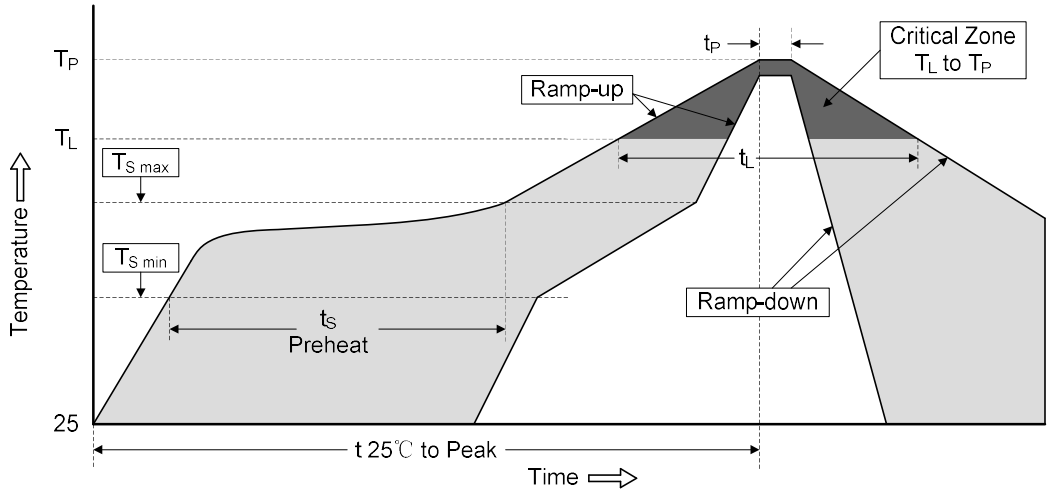


Figure 4. Normalized DC Holding Current versus Case Temperature



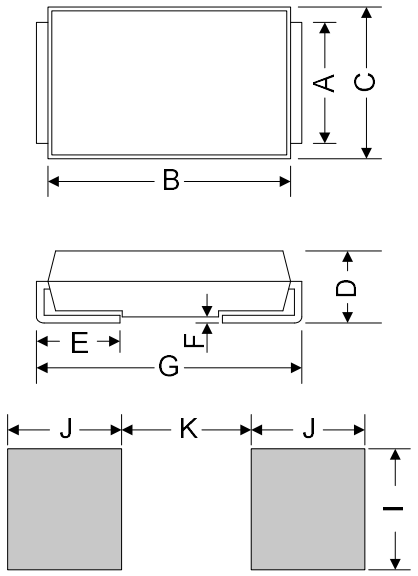
Soldering Parameters

Reflow Soldering



Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_P)	3℃/second max.
Preheat -Temperature Min ($T_{S\ min}$) -Temperature Max ($T_{S\ max}$) -Time (min to max) (t_S)	 150℃ 200℃ 60-180 seconds
$T_{S\ max}$ to T_L -Ramp-up Rate	 3℃/second max.
Time maintained above: -Temperature (T_L) -Time (t_L)	 217℃ 60-150 seconds
Peak Temperature (T_P)	260℃
Time within 5℃ of actual Peak Temperature (t_P)	20-40 seconds
Ramp-down Rate	6℃/second max.
Time 25℃ to Peak Temperature	8 minutes max.

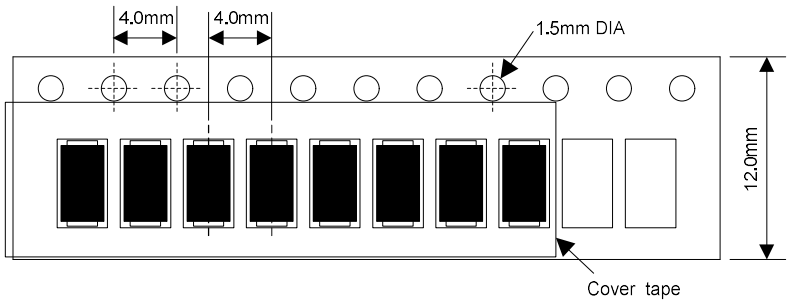
Dimensions (SMA/DO-214AC)



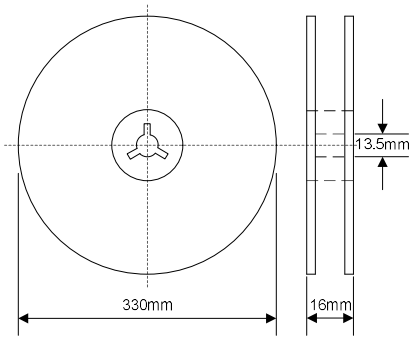
Symbol	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.250	1.650	0.049	0.065
B	3.990	4.600	0.157	0.181
C	2.400	2.790	0.095	0.110
D	1.900	2.500	0.075	0.098
E	0.760	1.520	0.030	0.060
F	-	0.203	-	0.008
G	4.800	5.280	0.189	0.208
I	1.800	-	0.070	-
J	2.100	-	0.082	-
K	-	2.300	-	0.090

Packaging Specification

Tape



13 Inches Reel



Quantity：5000pcs/reel

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