

## 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°C
- Storage Temperature Range: -40 to +150°C

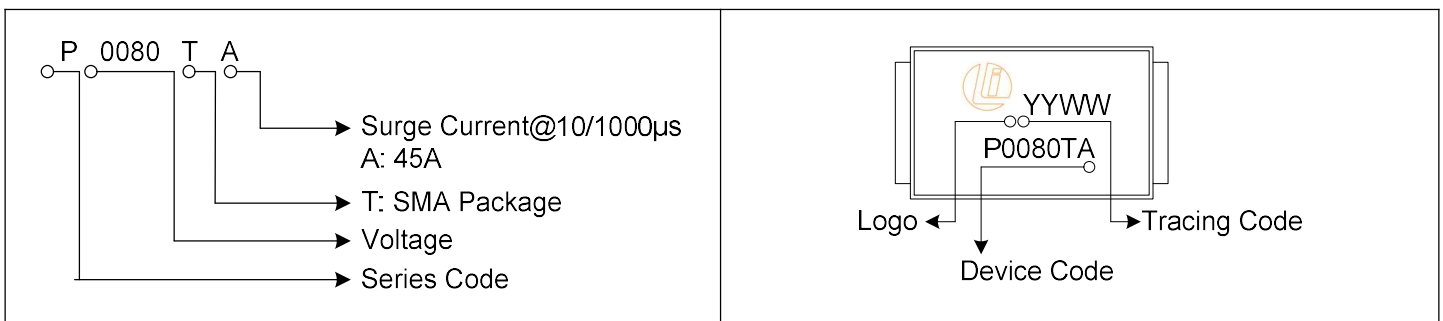
## Applications

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

## Electrical Characteristics (T<sub>A</sub>=25°C)

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 <sub>DRM max.</sub> (V)	I <sub>DRM max.</sub> (µA)	V <sub>S max.</sub> (V)	I <sub>S max.</sub> (mA)	V <sub>T max.</sub> (V)	I <sub>T max.</sub> (A)	I <sub>H typ.</sub> (mA)	C <sub>O typ.</sub> (pF)	I <sub>PP</sub> (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

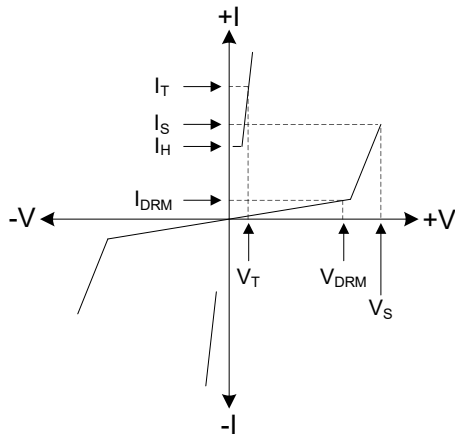


Figure 2. Pulse Waveform

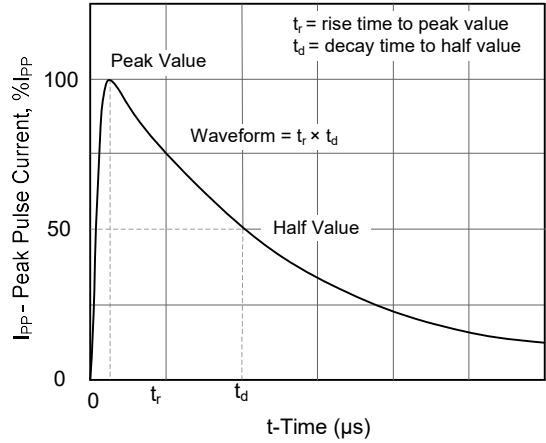


Figure 3. Normalized  $V_S$  Change versus Junction Temperature

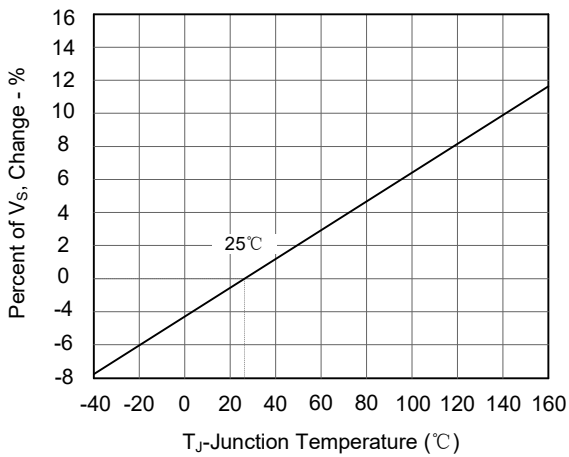
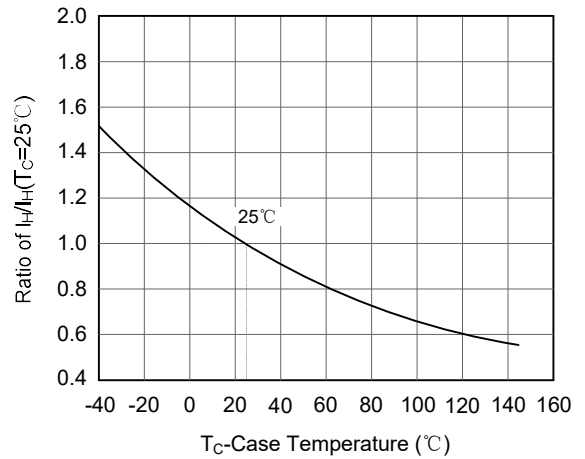
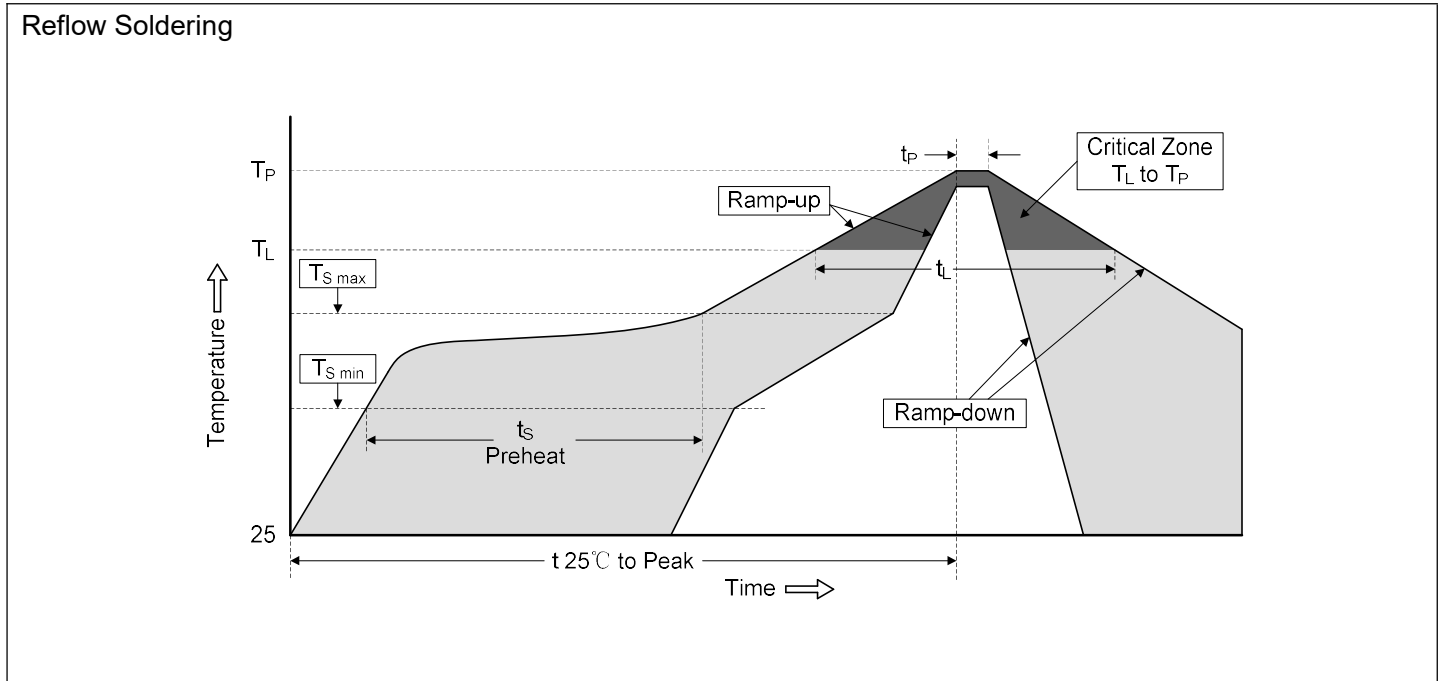


Figure 4. Normalized DC Holding Current versus Case Temperature



## Soldering Parameters



Profile Feature	Pb-Free Assembly
Average ramp-up rate ( $T_L$ to $T_P$ )	3°C/second max.
Preheat <ul style="list-style-type: none"> <li>-Temperature Min (<math>T_{S\ min}</math>)</li> <li>-Temperature Max (<math>T_{S\ max}</math>)</li> <li>-Time (min to max) (<math>t_s</math>)</li> </ul>	150°C 200°C 60-180 seconds
$T_{S\ max}$ to $T_L$ <ul style="list-style-type: none"> <li>-Ramp-up Rate</li> </ul>	3°C/second max.
Time maintained above: <ul style="list-style-type: none"> <li>-Temperature (<math>T_L</math>)</li> <li>-Time (<math>t_L</math>)</li> </ul>	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

<p><b>Tape</b></p>
<p><b>13 Inches Reel</b></p> <p><b>Quantity:</b> 5000pcs/reel</p>