

TERMINAL PAD SOLDERABILITY:
 Meets EIA Specification RS186-9E
 And ANSI/J-STD-002 Category 3.

TERMINAL PAD MATERIALS:

Tin-Plated Nickel-Copper
 Lead-Free, ROHS Compliant

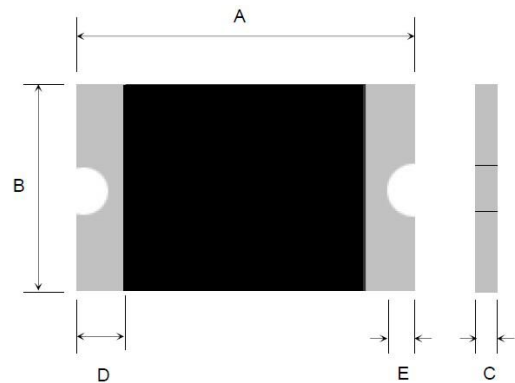


TABLE I. DIMENSIONS:

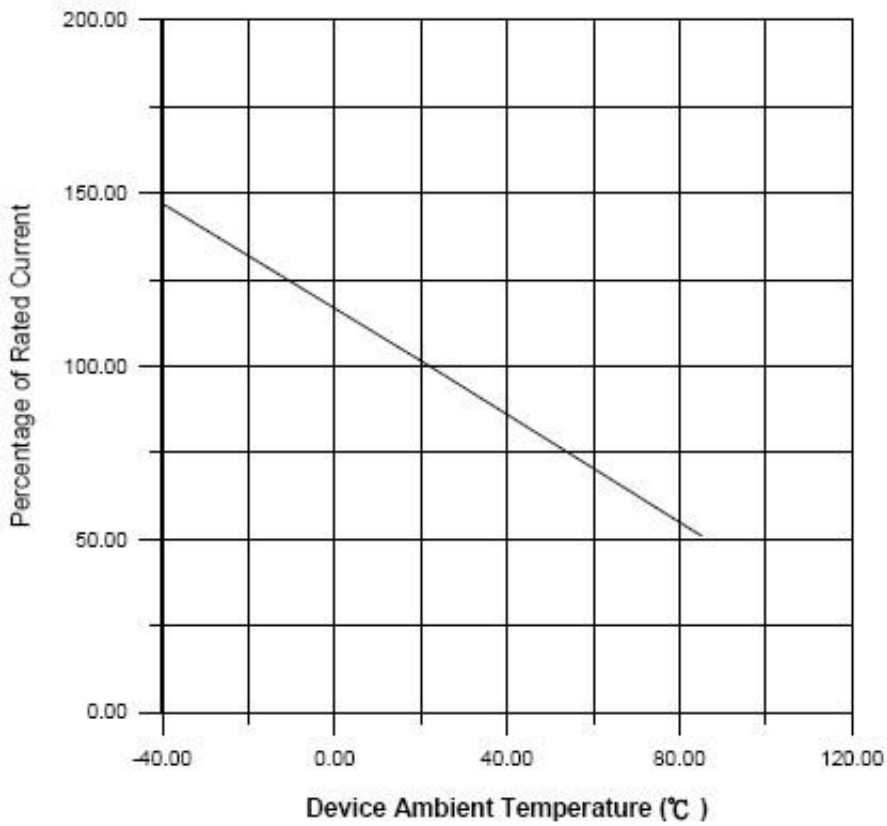
Unit: mm

Model	A		B		C		D	E
	Min	Max	Min	Max	Min	Max	Min	Min
1812-075/13.2V	4.37	4.73	3.07	3.41	0.40	0.90	0.30	0.25

TABLE II. PERFORMANCE RATINGS:

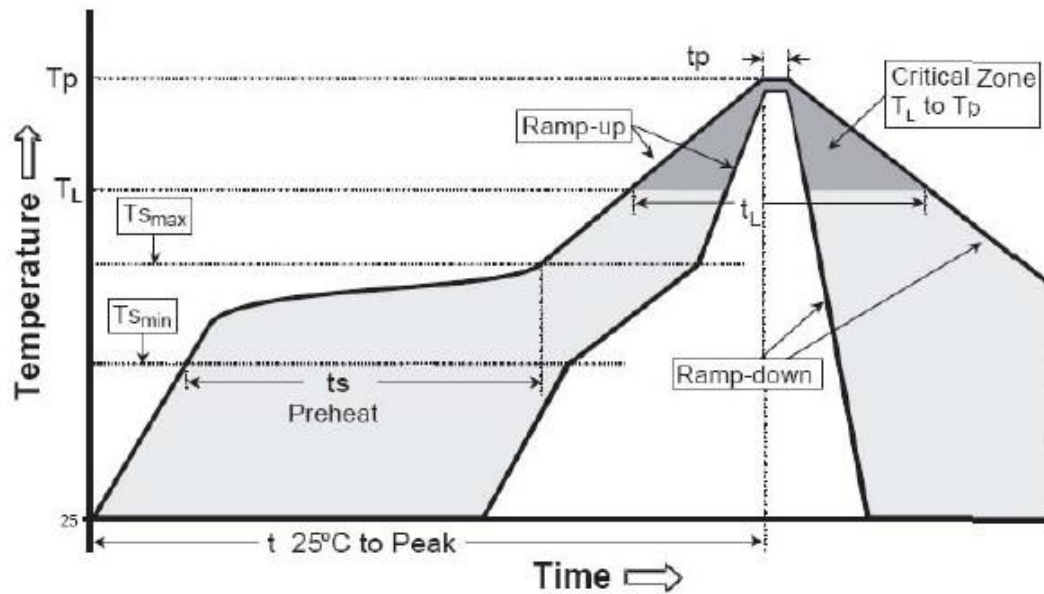
Model	Vmax	I _{max}	I _{hold@25°C}	I _{trip@25°C}	P _d Typ.	Maximum Time TO Trip		Resistance	
	(Vdc)	(A)	(A)	(A)	(W)	Current (A)	Time (Sec)	R _{imin} (Ω)	R _{imax} (Ω)
1812-075/13.2V	13.2	100	0.75	1.50	0.8	8.0	0.20	0.090	0.450

THERMAL DERATING CURVE FOR SMD1812 SERIES



**THERMAL DERATING CHART FOR SMD1812 SERIES-IHOLD(Amps)
RECOMMENDED DATA**

Model	Ambient Operation Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
1812-075/13.2V	1.10	0.99	0.87	0.75	0.63	0.57	0.49	0.45	0.35

SOLDER REFLOW

RECOMMENDED CONCITIONS

Profile Feature	Pd-Free Assembly
Average Ramp-Up Rate(T_{Smax} to T_p)	3°C/second max
Preheat —Temperature Min(T_{Smin}) —Temperature Max(T_{Smax}) —Time(T_{Smin} to T_{Smax})	150°C 200°C 60-180seconds
Time maintained above: —Temperature(T_L) —Time(t_L)	217°C 60-150seconds
Peak Temperature(T_p)	260°C
Time within 5°C of actual Peak Temperature(t_p)	20-40seconds
Ramp-Down Rate	6°C/second max.
Time 25°C to Peak Temperature	8minutes max.
Storage Condition	0°C~35°C, ≤70%RH

Note: 1.All temperature refer to topside of the package, measured on the package body surface.
2.If reflow temperature exceed the recommended profile, devices

PACKAGING

Part Number	Component Package	Quantity
1812-075/13.2V	1812	1500

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