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SPC-F005.DWG

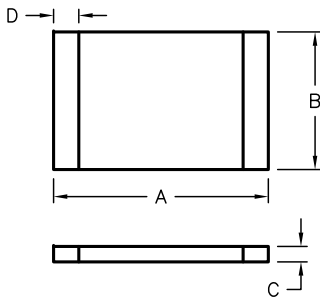
REVISIONS

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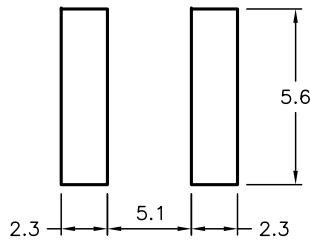
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
2063	A	RELEASED	JN	08/04/09	JWM	08/06/09	JWM	08/06/09



Dimensions

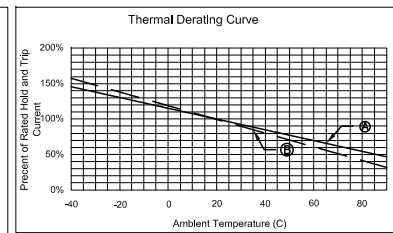
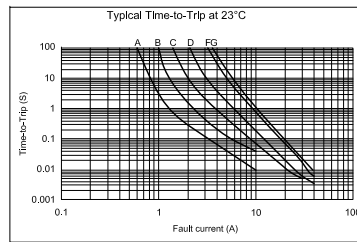


Pad Layout



SPECIFICATION

1. Lead Material: Pure Tin
2. Soldering characteristic: Meets EIA specs. RS 186-9E, ANSI/J-std-002 Category 3
3. Operating Current: 300mA~3.0A
4. Maximum Voltage: 6V~60V
5. Temperature Range: -40°C to 85°C



Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (T _{smax} to T _p)	3 C/second max.
Preheat :	
Temperature Min (T _{smin})	150 C
Temperature Max (T _{smax})	200 C
Time (t _{smin} to t _{smax})	60-180 seconds
Time maintained above: Temperature (T)	217 C
Time (t _l)	60-150 seconds
Peak/Classification Temperature (T _p)	260 C
Time within 5C of actual Peak : Temperature (t _p)	20-40 seconds
Ramp-Down Rate :	6 C /second max.
Time 25C to Peak Temperature :	8 minutes max.

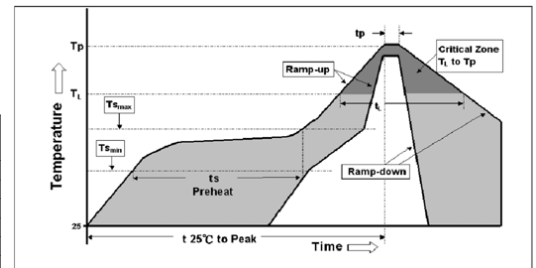
Solder reflow

- "Due to "Lead Free" nature, Temperature and Dwelling time for the soldering zone is higher than those for Regular. This may cause damage to other components.
1. Recommended max past thickness > 0.25mm.
 2. Devices can be cleaned using standard methods and aqueous solvent.
 3. Rework use standard industry practices.
 4. Storage Environment : < 30°C / 60%RH

Caution:

1. If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.
2. Devices are not designed to be wave soldered to the bottom side of the board.

Mfg. P/N	A		B		C		D	Hold Current	Trip Current	Rated Voltage	Maximum Current	Typical Power	Max Time-to-Trip		Resistance Tolerance		Time-to-Trip Curve Option	Thermal Derating Curve Option
	Min	Max	Min	Max	Min	Max	Min	I _H , A	I _T , A	V _{MAX} Vdc	I _{MAX} A	Pd, W	Current	Time	R _{MIN} ohms	R _{MAX} ohms		
MC33189	6,73	7,98	4,8	5,44	0,6	1,15	0,35	0,3	0,6	60	10	1,5	1,5	3	1	4,8	Option A	Option A
MC33192	6,73	7,98	4,8	5,44	0,6	1,15	0,35	0,5	1	60	10	1,5	2,5	4	0,3	1,4	Option B	Option A
MC33194	6,73	7,98	4,8	5,44	0,35	1,15	0,35	0,75	1,5	33	40	1,5	8	0,3	0,18	1	Option C	Option A
MC33195	6,73	7,98	4,8	5,44	0,4	1	0,35	1,1	2,2	33	40	1,5	8	0,5	0,09	0,41	Option D	Option A
MC33197	6,73	7,98	4,8	5,44	0,4	0,9	0,35	1,5	3	33	40	1,5	8	2	0,05	0,23	Option F	Option B
MC33198	6,73	7,98	4,8	5,44	0,3	0,9	0,35	1,85	3,7	33	40	1,5	8	2,5	0,04	0,15	Option G	Option B



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TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Jason Nash	08/06/09
CHECKED BY:	DATE:
JWM	08/06/09
APPROVED BY:	DATE:
JWM	08/06/09

DRAWING TITLE:

Surface Mountable PTC Resettable Fuse

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	Ta-1191	Ta-1191.dwg	A
SCALE: NTS	U.O.M.: INCHES [mm]	SHEET: 1 OF 1	