

Features

- For use in telecommunication circuit applications requiring low current protection with high surge tolerance
- Overcurrent protection to Telcordia GR-1089-CORE Issue 4 (B1250T only) & UL 1950/60950
- Bourns[®] TISP[®] products are recommended for the overvoltage section of the circuit



- Agency recognition: 🔊 File: E198545
- RoHS compliant*

Telefuse[™] SMD Power Cross Protection Fuse

Electrical Characteristics

Model Number	Ampere Rating (A)	Voltage Rating (VRMS)	Typical Cold Resistance (Ohms)	Volt-drop @ 100 % In (Volts) Max.	Melting I2T < 10 msec (A2 sec.)	Melting I2T @ 10 In (A2 sec.)	Maximum Power Dissipation (W)
B0500T	0.500	600	0.350	0.23	2	2.3	0.20
B1250T	1.25	600	0.075	0.18	14	17	0.40
B2000T	2.0	600	0.056	0.16	33	37	0.52

Temperature Range

.....-55 °C to +125 °C

Environmental Characteristics

Thermal Shock MIL-STD-202, Method 107, Test Condition B (-65 °C to +125 °C) Shock...... MIL-STD-202, Method 213, Test Condition I (100 Gs peak for 6 milliseconds) Vibration MIL-STD-202, Method 201 (10-55 Hz, 0.06 inch total excursion) Salt Spray ... MIL-STD-202, Method 101, Test Condition B (48 hrs.) Insulation Resistance MIL-STD-202, Method 302, Test Condition A (after opening) 10,000 ohms minimum Solderability MIL-STD-202, Method 208

Physical Characteristics

Body Material

..... Ceramic with tin plated brass caps Solder RoHS 6 Compliant lead free RoHS reflow compatible; reference 240 °C, 30 sec. max. Soldering Process Window IR Reflow 240 °C for 30 seconds max. (Not recommended for Wave solder direct immersion)

Packaging 2,000 pcs. per 13 " reel

Lightning Surge Withstand Capabilities

Max. Rise/	Repetitions		Minimum Peak	Minimum Withstand Peak Current (A)		
Min. Decay (µs)	Total	Each Polarity	Voltage (V)	B0500T	B1250T	B2000T
10/1000	50	25	1000	25	100	120
10/360	50	25	1000	30	125	150
2/10	20	10	2500	120	500	600
10/360	10	5	1000	30	125	150
2/10	2	1	5000	120	500	600
8/20	2	1	5000	75	300	350

Test Methods per GR-1089/TIA-968-A (FCC Pt. 68)

AC Power Fault Tests

			Short			Fuse Characteristics			
	GR-1089		Circuit						
	1st Level	Voltage	Current						
	Test	(VRMS)	(A)	Applications	Duration	B0500T	B1250T	B2000T	
	1	50	0.33	1	15 min.				
	2	100	0.17	1	15 min.				
	3	200,	1	60	1 sec.		Parts pass all 1st Level tests		
		400,				Parts pas			
		600							
	4	1000	1	60	1 sec.				
	6	600	0.5	1	30 sec.				
	7	440	2.2	5	2 sec.	Will open			
ĺ	8	600	3	5	1.1 sec.	Will open		ss all 1st	
	9	1000	5	5	0.4 sec.	Will open	Level tests		

AC Current Limiting Protector Tests/Fusing Coordination Tests

Voltage	Current		Maximum Time for Fuse to Open (Seconds)				
(Vac)	(A)	Duration	B0500T	B1250T	B2000T		
600	2.2		1.0	900	Will not open		
600	2.6		0.8	50	2000		
600	3.0		0.5	10	100		
600	3.75		0.3	5	10		
600	5		0.2	2	3		
600	7	Up to 15 Min.	0.08	1	2		
600	10		0.04	0.5	0.7		
600	12.5		0.01	0.2	0.3		
600	20		0.005	0.07	0.1		
600	25		0.004	0.04	0.07		
600	30		0.003	0.02	0.05		

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

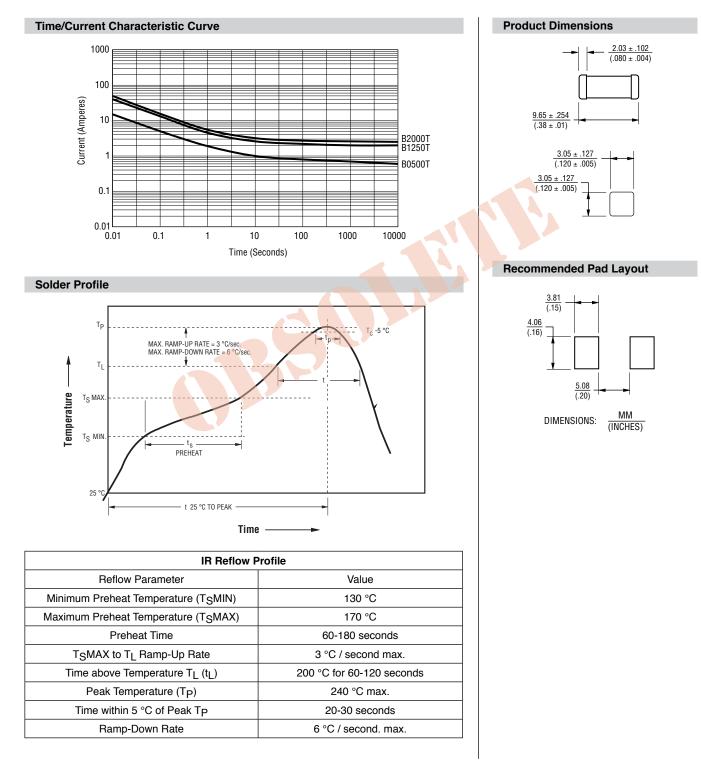
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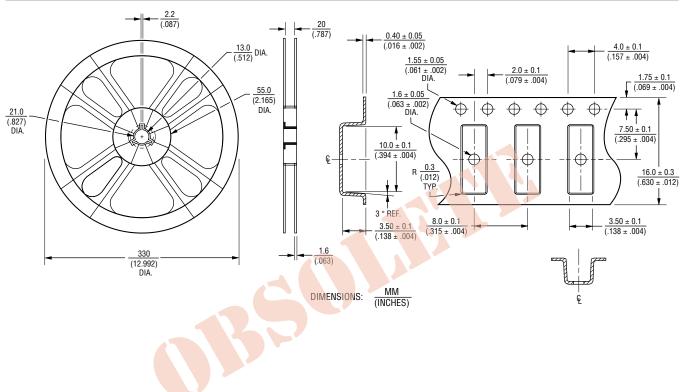
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Telefuse[™] SMD Power Cross Protection Fuse

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Packaging Specifications

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