

Telecom Circuit Protector 4010BC-T Series

Descriptions

The telecom circuit protector designed to protect against power cross faults and comply with all surge requirements.

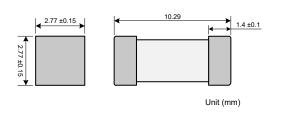
Allows compliance with telecom regulatory standards including Bellcore GR 1089, UL 1950/60950, and FCC part 68. Application circuit testing is recommended.

Protects against overcurrent conditions found in telecom Subscriber Line Interface Cards (SLICs), xDSL Modem Applications, Set-Top Boxes, and Consumer Premises Equipment (CPE).

Electrical Characteristics					
Rated Current	1.0ln	2.5ln	3.0ln		
500mA~2A	4 hour min	1~120 sec	10 sec max		

Top View (4010BC-T)

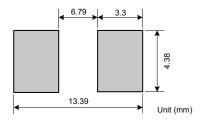
Product Dimensions



Features

- Fast Acting High current brick fuse
- Surface mount deign to save space
- Ceramic Sugare body with end cap
- Designed to UL248-1
- Fully compatible with lead-free solder and high temperature profile associated with lead-free assembly

Recommended land pattern



Electrical information (Tamb=25°C)

	Rated	Rated	Breaking Capacity *		Typical Cold.	Typical Voltage	Typical
Part number	Voltage	Current	(A)	Resistance *	Drop	Prearcing I ² t *
	AC (V)	(A)	250V AC	600VC *	(mΩ)	(mV)	(A ² Sec)
4010BC250-0050T	250	0.50	50	60	530	470	1.3
4010BC250-0125T	250	1.25	50	60	110	205	22
4010BC250-0200T	250	2.00	50	60	75	200	30

^{*} AC Interrupting Rating (measured at designated voltage, 100% power factor)

^{* 600}V, 60A Interrupting ratings test were performed by closing the circuit between 50° and 70° on the voltage wave.

^{*} DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 $^{\circ}$

^{*} Typical Pre-arching I²t are measured at 60VDC, 10In Current

^{*} Maximum Total Clearing is measured on a 40A, 600V AC, unity power factor circuit.



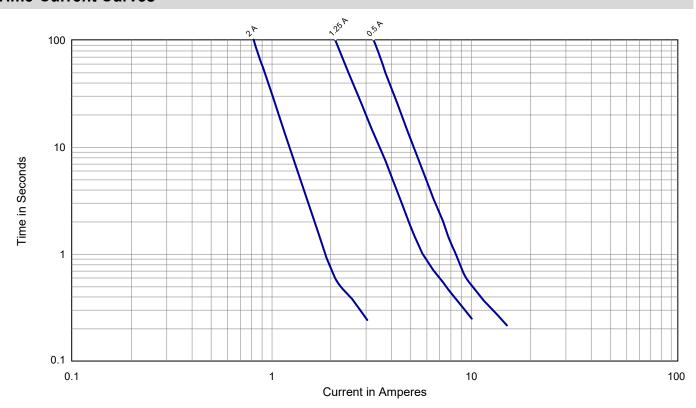
Surge Specification

Standard	Surge	Voltage	Waveforms	Current	Reps	Fuse Choices
	Metallic A	800V	10x560µs	100A	2	0.5/1.25A
TIA-968-A	Longitudinal A	1500V	10x160µs	200A	2	1.25/2A
11A-900-A	Metallic B	800V	9x720µs/5x320µs	25A	2	1.25/2A
	Longitudinal B	1500V	9x720µs/5x320µs	37.5A	2	0.5/1.25A
Bellcore	First Level Lightning	1000V	10x1000µs	100A	50	1.25/2A
GR-1089	Second Level Lightning	2500V	2x10µs	500A	50	1.25/2A
ITU K.20	A Series	1500V	10x700µs/5x310µs	37.5A	10	1.25A

Electrical and Power Cross Test

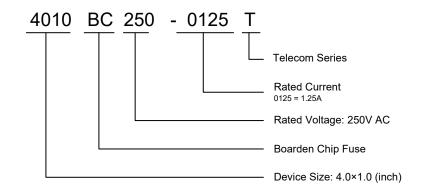
Standard	Test	Voltage	Current	Duration
Bellcore GR-1089	First Level	AC600V	3A	1.1s
	Second Level	AC277V	25A	15min
	Second Level	AC600V	60A	5s
UL60950	L1 Test	AC600C	40A	1.5s
	L3 Test	AC600V	2.2A	30min
ITU K.20	A criteria	AC600V	1A	0.2s
	A criteria	AC230V	1.44A	15min
	B criteria	AC230V	23A	15min

Time-Current Curves





Part Numbering System

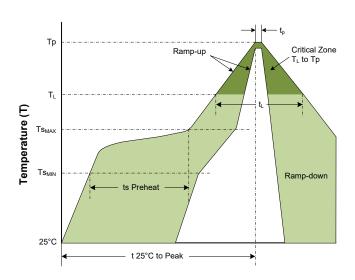


Order Information

Device	Quantity	Reel Size
4010BC-T Series	2500 pcs	13 Inch

Soldering Parameters

Profile Feature	Lead-Free Assembly
Average Ramp-up Rate (Ts _{MAX} to Tp) Average Ramp-down Rate (Tp to T _L)	3°C/second max. 6°C/second max.
Preheat Temperature Min (Ts _{MIN}) Temperature Max (Ts _{MAX}) Time (ts Preheat)	150°C 200°C 60-180 seconds
Time maintained above: • Temperature (T _L) • Time (t _L)	217°C 60-150 seconds
Peak/Classification Temperature • Temperature (Tp)	260 ^{+0/-5} °C
Time within 5°C of actual Peak Time (t_p)	20-40 seconds
Time 25°C to peak Temperature	8 minutes max
Do not exceed	280 °C



© 2016 Boarden Electronics Ltd.

Specifications are subject to change without notice.

Website: www.boarden.com.cn

Tel: 86-21-61401058 Fax: 86-21-61730538