

**Specification Status: Released**

**Operating Conditions at 20°C:**

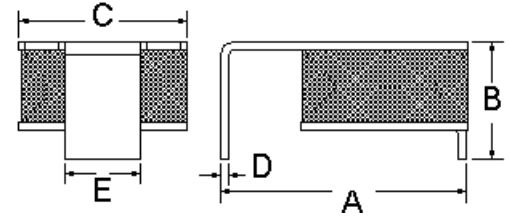
Maximum Continuous Operating Voltage ( $V_{MCO}$ ): 80V<sub>DC</sub>  
 Maximum Interrupt Current ( $I_{INT}$ ): 3A<sub>RMS</sub>

**Fault Ratings at 20°C:**

250V<sub>RMS</sub>, 3A, 10 applications

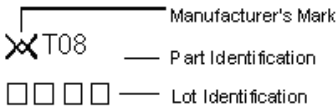
**Additional Info at 20°C:**

- Resistance matched: 0.5 ohm
- Lightning withstand: 1.0 kV per ITU-T K.20, K.21  
 - 1.5 kV per Telcordia GR1089 Intrabuilding – Surge 1 & 2
- Helps equipment meet ITU-T K.20, K.21 Recommendations
- Helps equipment meet Telcordia GR1089 Intrabuilding requirements



**Terminal Material:** Tin-Plated Brass

**Marking:**



**TABLE I. DIMENSIONS:**

	A		B		C		D		E	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	6.7	7.9	2.7	3.7	4.8	5.3	0.2	0.4	2.5	3.1
in.*	(0.265)	(0.310)	(0.110)	(0.145)	(0.190)	(0.210)	(0.008)	(0.015)	(0.100)	(0.120)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

HOLD CURRENT (A)		TRIP CURRENT (A)	RESISTANCE (Ω)			TIME TO TRIP(Sec) @ 1A		OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) @ 80V <sub>DC</sub>	
20°C	70°C		R MIN	R MAX	R <sub>1</sub> MAX*	TYP	MAX	MIN	MAX	TYP	MAX
0.080	0.044	0.24	5.0	11.0	20.0	0.8	1.6	-40	85	1.0	1.2

\*Maximum device resistance at 20°C measured 1 hour post trip and 24 hours post reflow

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

PART DESCRIPTION	PACKAGING TYPE	NOTE
TSL250-080F-B-0.5	Tape and Reel	Dim D not applicable

Agency Recognitions: UL (File #E74889), CSA (File #78165C), TUV  
 Reference Documents: PS300, ITU-T K.20, K.21  
 Precedence: This specification takes precedence over documents referenced herein.  
 Effectivity: Reference documents shall be the issue in effect on the date of invitation for bid.  
 Caution: Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.

**Materials Information**  
 ROHS Compliant

ELV Compliant

Pb-Free



**PolySwitch<sup>®</sup>**  
**PTC Devices**  
**Overcurrent Protection Device**

**PRODUCT: TSL250-080F-B-0.5**

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REV LETTER: D  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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