

**Specification Status: Released**

**Maximum Electrical Rating**

**Operation Voltage: 6V<sub>dc</sub>**

**Interrupt Current: 50A**

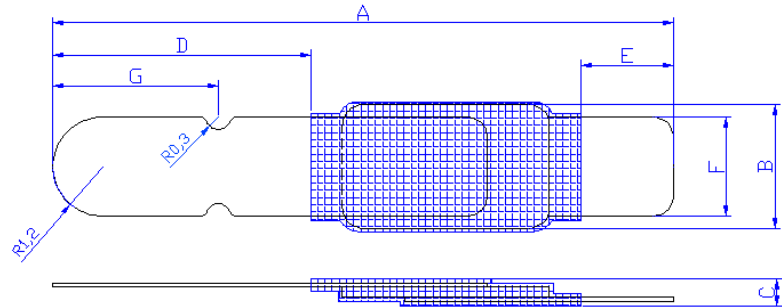
Chip Size: 3x5, R0.8mm

Leads: Nickel 1/4H  
 0.125mm nominal thickness

Solder: Lead-free

Tape: None

Marking: None



Note: shows the coating area

**TABLE I. DIMENSIONS:**

	A		B		C		D		E		F		G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	14.5	15.5	2.96	3.26	--	0.95	5.5	7.0	2.0	--	2.3	2.5	3.95	4.05
in*:	(0.57)	(0.61)	(0.12)	(0.13)	--	(0.04)	(0.22)	(0.28)	(0.08)	--	(0.09)	(0.10)	(0.16)	(0.16)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS: As measured in Mueller Kelvin Clips model BU-75K.**

I HOLD	CURRENT TRIP LIMITS								TIME TO TRIP		REFERENCE RESISTANCE		ONE-HOUR POST-TRIP RESISTANCE		TRIPPED-STATE POWER DISSIPATION
	AMPS 25°C HOLD	AMPS AT 25°C HOLD	AMPS AT 25°C TRIP	AMPS AT 45°C HOLD	AMPS AT 45°C TRIP	AMPS AT 60°C HOLD	AMPS AT 60°C TRIP	AMPS AT 70°C HOLD	AMPS AT 70°C TRIP	SECONDS AT 25°C, 25A MIN	SECONDS AT 25°C, 25A MAX	OHMS AT 25°C MIN	OHMS AT 25°C MAX	OHMS AT 25°C MIN	
5.0	5.0	14.0	3.6	11.0	2.7	9.0	2.0	7.5	---	5	0.0025	0.0042	0.0025	0.0080	1.5

Agency Recognition: UL, TUV  
 Reference Document: PS300  
 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**

Directive 2002/95/EC  
 Compliant

**ELV Compliant**

Directive 2000/53/EC  
 Compliant

**Pb-Free**





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# PolySwitch® PTC Devices

Overcurrent Protection Device

**PRODUCT: MGP500**

DOCUMENT: SCD28314  
REV LETTER: D  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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