Santa Ana, CA
Microsemi
Progress Powered by Technology

2830 S. Fairview St.
Santa Ana, CA 92704
PH: (714) 979-8220
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1N6742, R

PRELIMINARY

17 Volts
200 Amps
5KW

TRANSIENT VOLTAGE SUPPRESOR

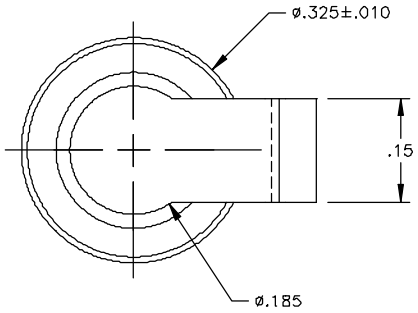
Features

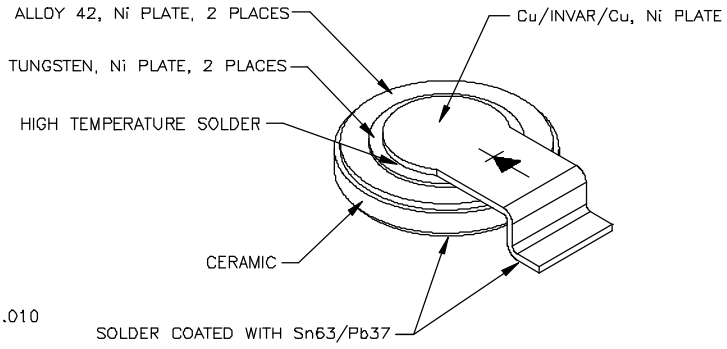
- Passivated mesa structure for very low leakage currents
- Hermetically sealed, low profile ceramic surface mount power package
- Low package inductance
- 5000 Watts peak power
- Very low thermal resistance
- Available as standard polarity (strap-to-anode) and reverse "R" polarity (strap-to-cathode)

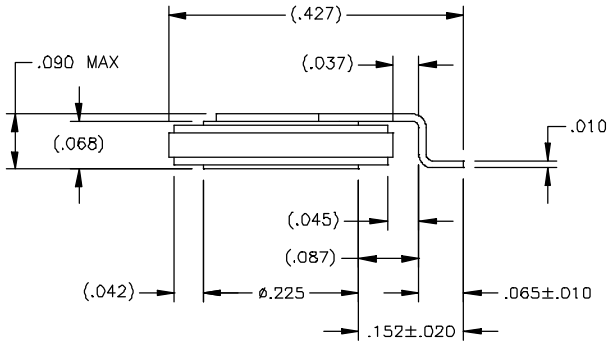
Maximum Ratings @ 25°C (unless otherwise specified)

DESCRIPTION	SYMBOL	MAX.	UNIT
Peak Power Dissipation	Ppp	5000	Watts
tclamping :0 volts to VBR min (theoretical)		< 1	picosecond
Forward Surge Rating, 1/120 sec @25°C	I_{FSM}	200	Amps
Junction Temperature Range	T_j	-65 to +175	°C
Storage Temperature Range	T_{stg}	-65 to +175	°C
Thermal Resistance, Junction to Case:	θ_{JC}	0.65	°C/W

Mechanical Outline
Slugger™1 (DO-217AA)







Note: Polarity symbol shown
Applies to 1N6742.

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Electrical Parameters

DESCRIPTION	SYMBOL	CONDITIONS	MIN	TYP.	MAX	UNIT
Breakdown Voltage	V_{BR}	IT= 1mA, Tc= 25°C	17		n/a	V
Rated Standoff Voltage	V_{WM}		15.3			V
Reverse Voltage	V_{RMS}					
Reverse Leakage	I_D	15.3V		1	5	µA
Peak Reverse Voltage	V_C	IP = 200A, exponential		22	26	
Reverse Surge Current	I_{PP}				200	A