

1N6742, R

PRELIMINARY

**17 Volts
 200 Amps
 5KW**

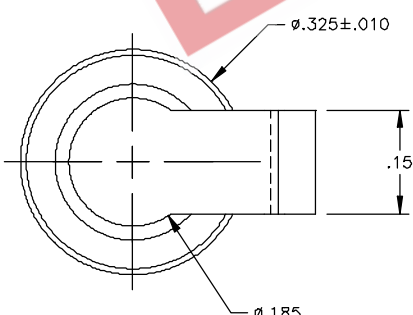
**TRANSIENT
 VOLTAGE
 SUPPRESSOR**

Features

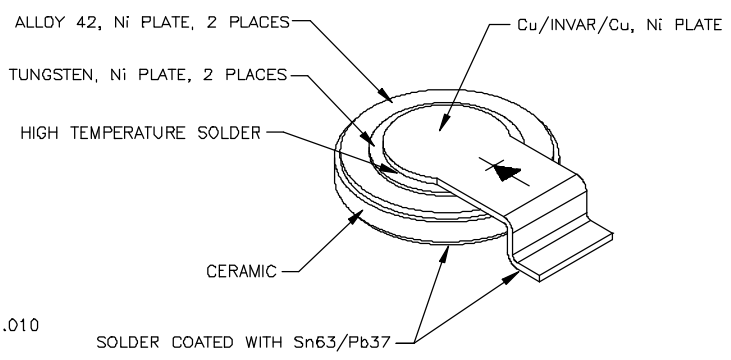
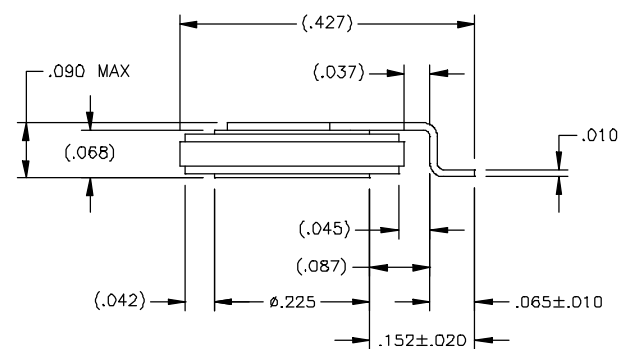
- Passivated mesa structure for very low leakage currents
- Hermetically sealed, low profile ceramic surface mount power package
- Low package inductance
- 5000 Watts peak power
- Very low thermal resistance
- Available as standard polarity (strap-to-anode) and reverse "R" polarity (strap-to-cathode)

Maximum Ratings @ 25°C (unless otherwise specified)

DESCRIPTION	SYMBOL	MAX.	UNIT
Peak Power Dissipation	P _{pp}	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}	$I_T = 1\text{mA}$, $T_c = 25^\circ\text{C}$	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	$I_P = 200\text{A}$, exponential		22	26	
Reverse Surge Current	I_{PP}				200	A

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