

# 1N6742, R

# PRELIMINARY

## 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)

**17 Volts**  
**200 Amps**  
**5KW**

**TRANSIENT**  
**VOLTAGE**  
**SUPPRESSOR**

## Maximum Ratings @ 25°C (unless otherwise specified)

DESCRIPTION	SYMBOL	MAX.	UNIT
Peak Power Dissipation	P <sub>pp</sub>	5000	Watts
tclamping :0 volts to VBR min (theoretical)		< 1	picosecond
Forward Surge Rating, 1/120 sec @25°C	I <sub>FSM</sub>	200	Amps
Junction Temperature Range	T <sub>j</sub>	-65 to +175	°C
Storage Temperature Range	T <sub>stg</sub>	-65 to +175	°C
Thermal Resistance, Junction to Case:	θ <sub>JC</sub>	0.65	°C/W

Top view dimensions:  $\phi.325 \pm .010$ ,  $\phi.185$ ,  $.15$

Side view dimensions:  $.090$  MAX,  $(.068)$ ,  $(.427)$ ,  $(.037)$ ,  $(.045)$ ,  $(.087)$ ,  $(.042)$ ,  $\phi.225$ ,  $.065 \pm .010$ ,  $.152 \pm .020$ ,  $.010$

**Mechanical Outline**  
**Slugger™ 1 (DO-217AA)**

ALLOY 42, Ni PLATE, 2 PLACES

TUNGSTEN, Ni PLATE, 2 PLACES

HIGH TEMPERATURE SOLDER

Cu/INVAR/Cu, Ni PLATE

CERAMIC

SOLDER COATED WITH Sn63/Pb37

Note: Polarity symbol shown Applies to 1N6742.

Datasheet# MSC1328.PDF

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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	$\mu\text{A}$
Peak Reverse Voltage	$V_C$	$I_P = 200\text{A}$ , exponential		22	26	
Reverse Surge Current	$I_{PP}$				200	A