

# R4000 THRU R5000

## HIGH VOLTAGE SILICON RECTIFIER

VOLTAGE: 4000-5000V

CURRENT: 0.2A

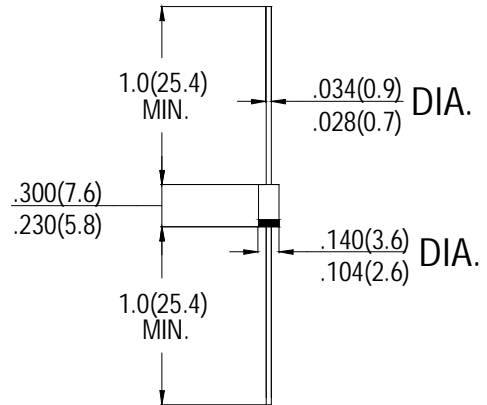
### FEATURES

- Low cost
- Low leakage
- Low forward voltage drop
- High current capability

### MECHANICAL DATA

- **Case:** Molded plastic
- **Epoxy:** UL94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** Color band denotes cathode end
- **Mounting position:** Any
- **Weight:** 0.38 grams

### DO-15



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	SYMBOL	R4000	R5000	units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	4000	5000	V
Maximum RMS Voltage	$V_{RMS}$	2800	3500	V
Maximum DC Blocking Voltage	$V_{DC}$	4000	5000	V
Maximum Average Forward rectified Current at $T_A=50^\circ\text{C}$	$I_o$	0.2		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	30		A
Maximum Forward Voltage Drop per element at 0.2A DC	$V_F$	5.0		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ $T_A=25^\circ\text{C}$	5.0		$\mu\text{A}$
	@ $T_A=100^\circ\text{C}$	100		
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at $T_L=75^\circ\text{C}$	$I_R$	30		
Typical Junction Capacitance (Note)	$C_J$	30		pF

Notes: Measured at 1MHz and applied reverse voltage of 4.0 volts