

R2500 THRU R5000

## HIGH VOLTAGE SILICON RECTIFIER

## VOLTAGE RANGE 2500 to 5000 Volts CURRENT 0.2 Ampere

#### **FEATURES**

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

### **MECHANICAL DATA**

\* Case: Molded plastic

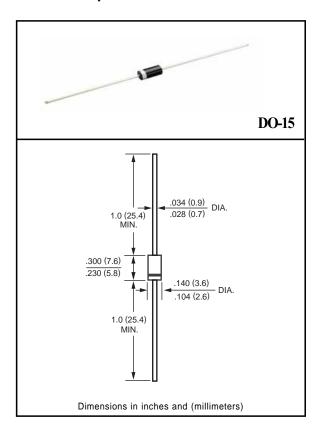
\* Epoxy: Device has UL flammability classification 94V-O

\* Lead: MIL-STD-202E method 208C guaranteed

\* Mounting position: Any \* Weight: 0.35 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



#### MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	R2500	R3000	R4000	R5000	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	2500	3000	4000	5000	Volts
Maximum RMS Volts	VRMS	1750	2100	2800	3500	Volts
Maximum DC Blocking Voltage	VDC	2500	3000	4000	5000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	lo		mAmps			
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM		Amps			
Typical Junction Capacitance (Note)	Cı		pF			
Operating and Storage Temperature Range	Тл, Тэтс		٥C			

#### ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	R2500	R3000	R4000	R5000	UNITS
Maximum Instantaneous Forward Voltage at 0.2A DC		VF	3.0	4.0	5.0		Volts
Maximum DC Reverse Current	@TA = 25°C		5.0				uAmps
at Rated DC Blocking Voltage	@TA =100°C	☐ IR					
Maximum Full Load Reverse Current Average, Full Cycle .375", (9.5mm) lead length at TL = 75°C		""	30				uAmps

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

# RATING AND CHARACTERISTIC CURVES (R2500 THRU R5000)

