

R2500 THRU R5000

# HIGH VOLTAGE SILICON RECTIFIER VOLTAGE RANGE 2500 to 5000 Volts CURRENT 0.2 Ampere

#### **FEATURES**

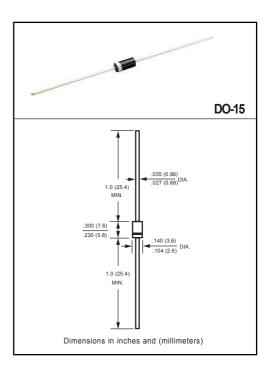
- \* Low cost
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability

### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any \* Weight: 0.40 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	200			mAmps	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30				Amps
Tunical Thomas Decistance	RθJA		°C/W			
Typical Thermal Resistance	RθJL					
Typical Junction Capacitance (Note)	CJ	30			pF	
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150			۰C	

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

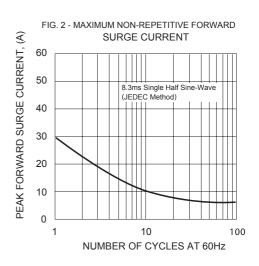
CHARACTERIS	SYMBOL	R2500	R3000	R4000	R5000	UNITS	
Maximum Instantaneous Forward Voltag	VF	3.0	4.0	5.0		Volts	
Maximum DC Reverse Current	@TA = 25°C		5.0				
at Rated DC Blocking Voltage	l <sub>R</sub>	50				uAmps	
Maximum Full Load Reverse Current Av. 375". (9.5mm) lead length at TL = 75°C		30			uAmps		

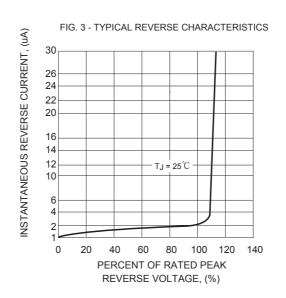
NOTES: 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts.

- 2. "ROHS compliant"
- 3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

# RATING AND CHARACTERISTIC CURVES (R2500 THRU R5000)

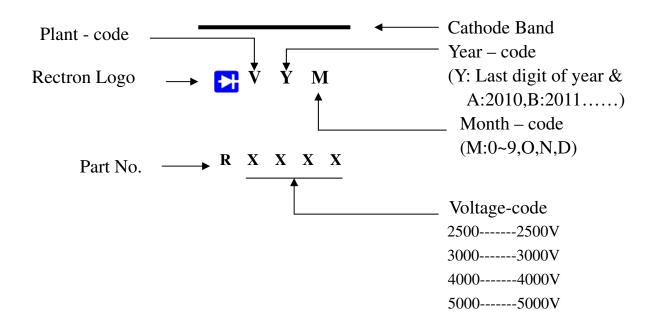
FIG. 1 - TYPICAL FORWARD CURRENT **DERATING CURVE** AVERAGE FORWARD CURRENT, (mA) 250 Single Phase Half Wave 60Hz Inductive or 200 Resistive Load 150 100 50 0 0 50 100 150 175 AMBIENT TEMPERATURE, ( °C )







# **Marking Description**



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

# BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-15	-B	500	194*84*21	415*220*255	25,000	12.74

## REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-15	-T	4,000	4,000	5.0	52	330	355*350*335	16,000	10.05

## AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
DO-15	-F	1,500	5.0	52	255*73*100	400*268*225	15,000	8.8



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