# **R2500F THRU R5000F**

## REVERSE VOLTAGE: FORWARD CURRENT:

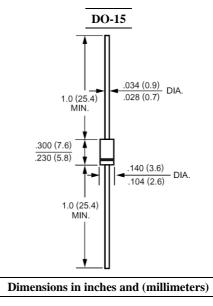
2500 to 5000 VOLTS 0.2 AMPERE

### FEATURES

- $\cdot$  Fast switching
- $\cdot$  Low leakage
- $\cdot$  Low forward voltage drop
- $\cdot$  High current capability
- · High current surge
- $\cdot$  High reliability

#### MECHANICAL DATA

Case: Molded plastic, DO-15 Epoxy: UL 94V-O rate flame retardant Terminals: Axial leads, solderable per MIL-STD-202, method 208 guaranteed Polarity: Band denotes cathode Mounting position: Any Weight: 0.015ounce, 0.4gram



### Maximum Ratings and Electrical Characteristics

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

	Symbols	R2500F	R3000F	R4000F	R5000F	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	2500	3000	4000	5000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	1750	2100	2800	3500	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	2500	3000	4000	5000	Volts
Maximum Average Forward Rectified Current	L	0.2				<b>A</b>
.375"(9.5mm) Lead Length at T <sub>A</sub> =50	I <sub>(AV)</sub> 0.2					Атр
Peak Forward Surge Current,						
8.3ms single half-sine-wave	I <sub>FSM</sub>	30				Amp
superimposed on rated load (JEDEC method)						
Maximum Forward Voltage at 0.2A	V <sub>F</sub>	4.0	5.0	6.5		Volts
Maximum Reverse Current		5.0				uAmp
at Rated DC Blocking Voltage $T_A=25$	- I <sub>R</sub>					
Maximum Full Load Reverse Current Average,	IR	100				uAmp
Full Cycle .375", (9.5mm) lead length at $T_L = 55$						
Maximum Reverse Recovery Time (Note 1)	T <sub>RR</sub>	500				nS
Operating and Storage Temperature Range	$T_{\rm J}$ , Tstg	-55 to +150				

#### NOTES:

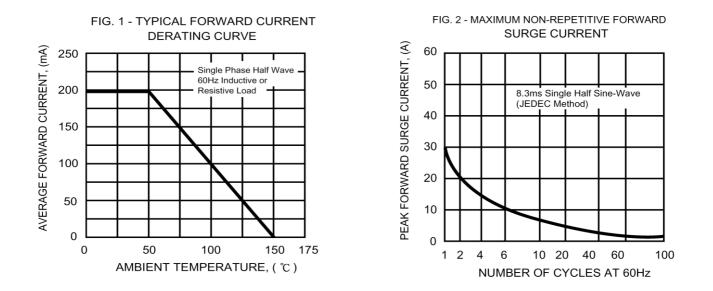
1- Reverse Recovery Test Conditions :  $I_{F} {=} .5 A$  ,  $I_{R} {=} 1 A$  ,  $I_{RR} {=} .25 A.$ 

# HIGH VOLTAGE FAST RECOVERY RECTIFIER

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### **RATINGS AND CHARACTERISTIC CURVES**



#### FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

