R2500F THRU R5000F

REVERSE VOLTAGE: FORWARD CURRENT:

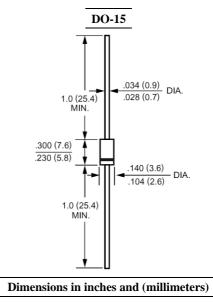
2500 to 5000 VOLTS 0.2 AMPERE

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 _{RRM}	2500	3000	4000	5000	Volts
Maximum RMS Voltage	V _{RMS}	1750	2100	2800	3500	Volts
Maximum DC Blocking Voltage	V _{DC}	2500	3000	4000	5000	Volts
Maximum Average Forward Rectified Current	L	0.2				A
.375"(9.5mm) Lead Length at T _A =50	I _(AV) 0.2					Атр
Peak Forward Surge Current,						
8.3ms single half-sine-wave	I _{FSM}	30				Amp
superimposed on rated load (JEDEC method)						
Maximum Forward Voltage at 0.2A	V _F	4.0	5.0	6.5		Volts
Maximum Reverse Current		5.0				uAmp
at Rated DC Blocking Voltage $T_A=25$	- I _R					
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 _{RR}	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

R2500F THRU R5000F

HIGH VOLTAGE FAST RECOVERY RECTIFIER

RATINGS AND CHARACTERISTIC CURVES

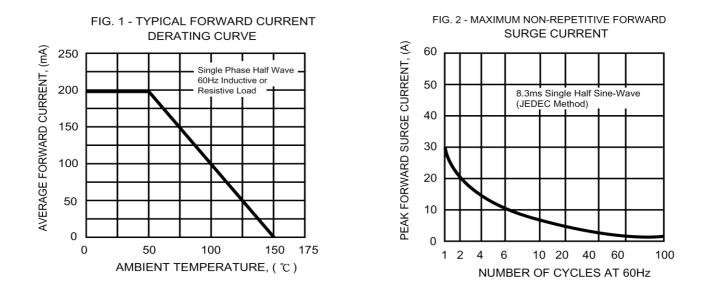


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

