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R2500F THRU R3000F

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- High Voltage
- Low Leakage
- Fast Switching For Higher Efficiency
- High Current Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
R2500F	R2500F	2500V	1750V	2500V
R3000F	R3000F	3000V	2100V	3000V

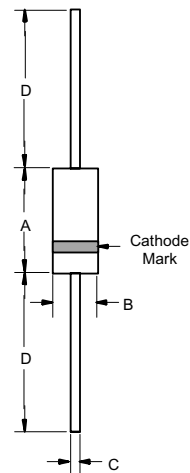
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	200mA	$T_A = 50^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	4.0V 5.0V	$I_{FM} = 0.5\text{A};$ $T_A = 50^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0μA 50μA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$
Typical Junction Capacitance	C_J	30pF	Measured at 1.0MHz, $V_R=4.0\text{V}$
Maximum Reverse Recovery Time	T_{rr}	500nS	

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

200 Milliamp High Voltage Fast Recovery Silicon Rectifier 2500 to 3000 Volts

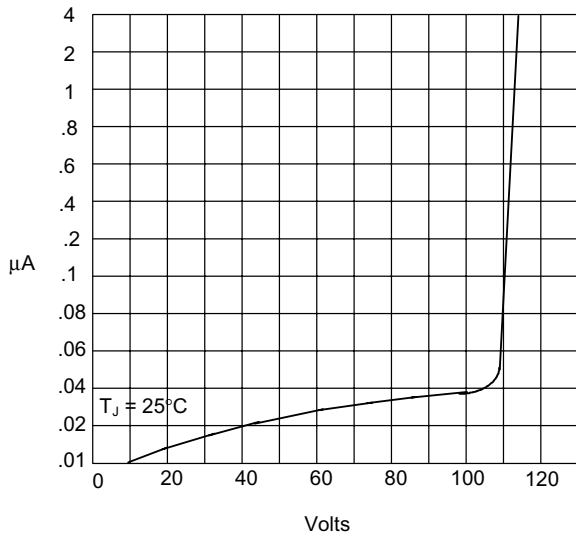
DO-15



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	MIN .230	MAX .300	MIN 5.80	MAX 7.60	
B	MIN .104	MAX .140	MIN 2.60	MAX 3.60	
C	MIN .026	MAX .034	MIN .70	MAX .90	
D	MIN 1.000	MAX ---	MIN 25.40	MAX ---	

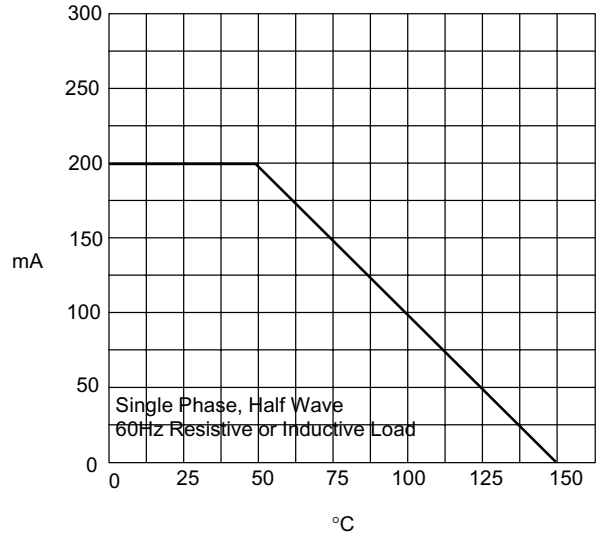
R2500F - R3000F

Figure 1
Typical Reverse Characteristics



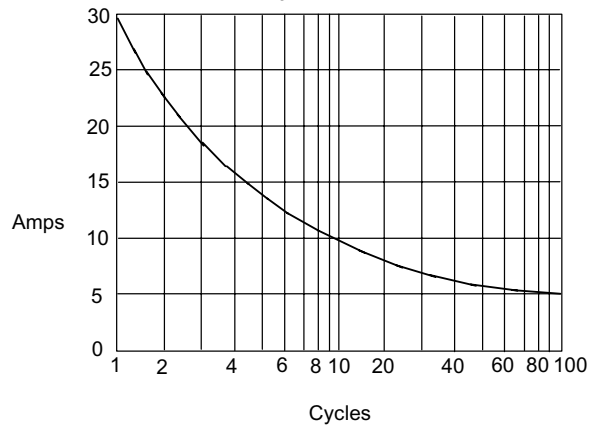
Instantaneous Reverse Current - Micro Amps *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Ambient Temperature - °C

Figure 3
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles