

**Micro Commercial Components** 



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### 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	Maximum RMS Voltage	Maximum DC Blocking
R2500F	R2500F	Voltage 2500V	1750V	Voltage 2500V
R3000F	R3000F	3000V	2100V	3000V

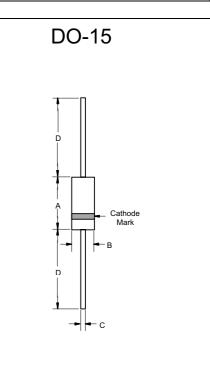
#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	200mA	T <sub>A</sub> = 50°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage			
R2500F R3000F	$V_{F}$	4.0V 5.0V	I <sub>FM</sub> = 0.5A; T <sub>A</sub> = 50°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μΑ 50μΑ	T <sub>A</sub> = 25°C T <sub>A</sub> = 100°C
Typical Junction Capacitance	CJ	30pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V
Maximum Reverse Recovery Time	T <sub>rr</sub>	500nS	

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

# R2500F THRU R3000F

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



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.230	.300	5.80	7.60		
В	.104	.140	2.60	3.60		
С	.026	.034	.70	.90		
D	1.000		25.40			

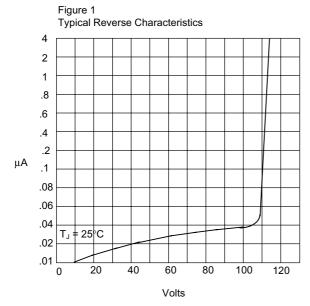
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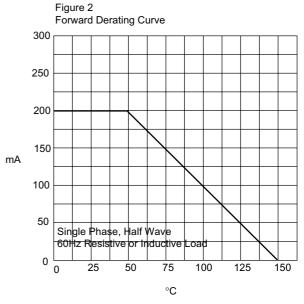
### R2500F - R3000F



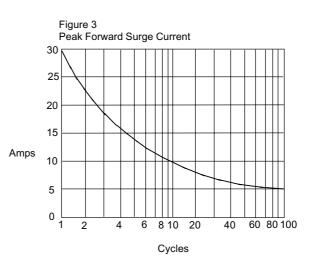
#### **Micro Commercial Components**



Instantaneous Reverse Current - Micro Ampsversus Percent Of Rated Peak Reverse Voltage - Volts



Average Forward Rectified Current - Amperes/ersus Ambient Temperature  $\ \ ^\circ C$ 





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### **Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel: 4Kpcs/Reel
Part Number-AP	Ammo Packing: 3Kpcs/Ammo Box
Part Number-BP	Bulk: 25Kpcs/Carton

#### **\*\*\*IMPORTANT NOTICE\*\*\***

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MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

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