Micro Commercial Components

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R4000F
THRU
R5000F

200 Milliamp High Voltage Silicon Rectifier 4000 to 5000 Volts

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Low Cost
- Low Leakage
- Low Forward Voltage Drop
- High Voltage
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

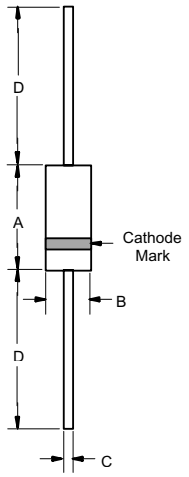
Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
R4000F	R4000F	4000V	2800V	4000V
R5000F	R5000F	5000V	3500V	5000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	200mA	T_A = 50℃
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	6.5V	I_{FM} = 0.2A; T_A = 50℃
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0μA 40μA	T_A = 25℃ T_A = 100℃
Maximum Full Load Reverse Current, Full Cycle Average 9.5mm lead length at T_L =75℃	$I_{R(AV)}$	30μA	
Maximum Reverse Recovery Time	T_{rr}	500ns	

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

DO-15



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

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

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