

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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R3000GP THRU R6000GP

200 Milliamp **High Voltage** Silicon Rectifier 3000 to 6000 Volts

DO-15

Features

- Halogen free available upon request by adding suffix "-HF"
- High Voltage
- Low Leakage
- Low Forward Voltage Drop
- Glass passivated chip
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Maximum Ratings

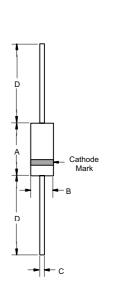
Operating Temperature: -55°C to +150°C Storage Temperature: -55°C to +150°C

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Microsemi	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
R3000GP	R3000GP	3000V	2100V	3000V
R4000GP	R4000GP	4000V	2800V	4000V
R5000GP	R5000GP	5000V	3500V	5000V
R6000GP	R6000GP	6000V	4200V	6000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	200mA	T _A = 60°C
Peak Forward Surge Current	I _{FSM}	15A	8.3ms, half sine
Maximum Instantaneous Forward Voltage R3000GP R4000GP R5000GP~R6000GP	V_{F}	2.3V 3.5V 5.0V	I _{FM} = 0.5A; T _A = 50°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μΑ	T _A = 25°C
Maximum reverse recovery time	T _{rr}	>1200	I _F =0.5A,I _R =1.0A, I _{RR} =0.25A(RG1 circuit)

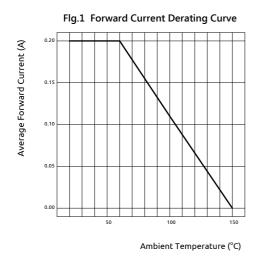
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.



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			
_	4.000		05.40				



Ratings and Characteristics Curves (T_A=25°C unless otherwise noted)



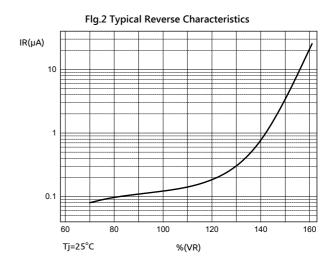


Fig.3 - Typical Forward Characteristics

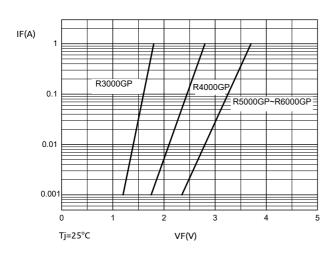
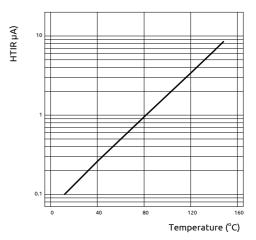


Fig.4 - Typical High Temperature Reverse Leakage





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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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