

# R4000GPS

## 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

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
R4000GPS	R4000GPS	4000V	2800V	4000V

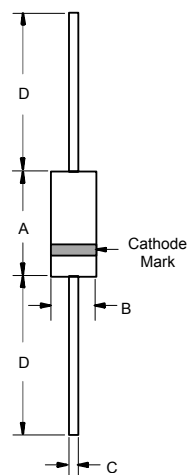
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	200mA	$T_A = 60^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	15A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	3.5V	$I_{FM} = 0.5\text{A}; T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0µA	$T_A = 25^\circ\text{C}$
Reverse Recovery Time	$T_{rr}$	>1200nS	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$

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

## 200 Milliamp High Voltage Silicon Rectifier 4000 Volts

### DO-41



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	MIN .166	MAX .205	MIN 4.10	MAX 5.20	
B	.080	.107	2.00	2.70	
C	.028	.034	.70	.90	
D	1.000	---	25.40	---	

# Typical Characteristics Curves

Fig.1 Forward Current Derating Curve

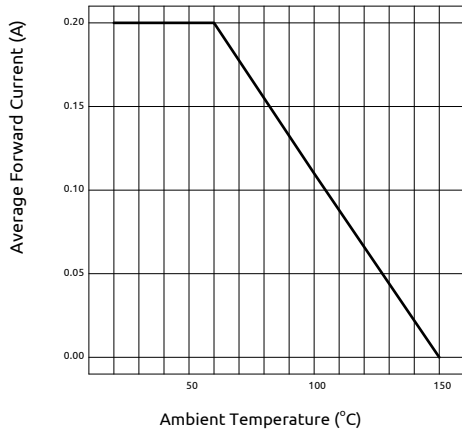


Fig.2 Typical Reverse Characteristics

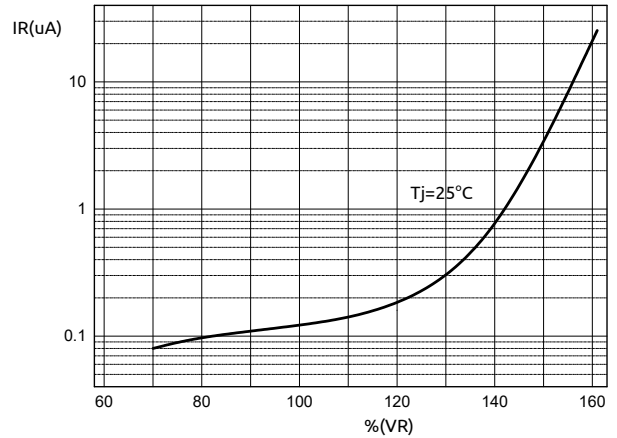


Fig.3 - Typical Forward Characteristics

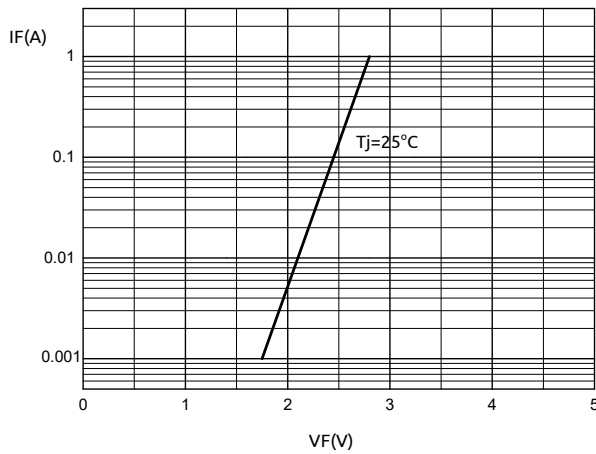
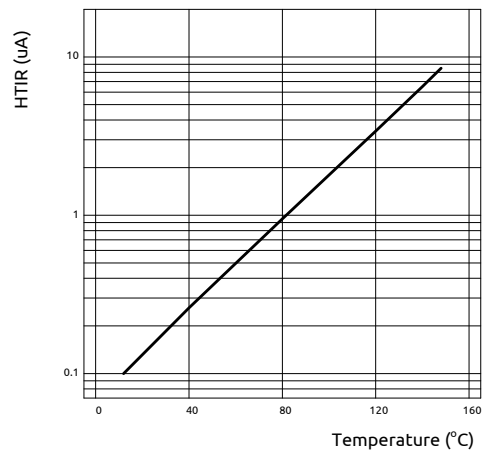


Fig.4 - Typical High Temperature Reverse Leakage





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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk: 50Kpcs/Carton

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

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