

#### **Features**

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- · High Current Capability
- Fast Switching For Higher Efficiency
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 2)

# 0.5 Amp High Voltage Fast Recovery Glass Passivated Rectifier 2000 Volts

# **Maximum Ratings**

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

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
FM2000GP	FM20	2000V	1400V	2000V

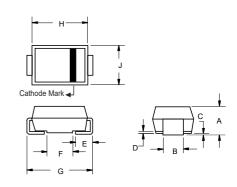
# Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	500mA	T <sub>A</sub> =50°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	2.5V	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>	5.0μA 50μA	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	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; I <sub>rr</sub> =0.25A

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

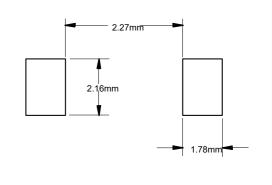
Halogen free "Green" products are defined as those which contain <900ppm bromine,</li>
 <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.</li>

# SMA (DO-214AC)



DIMENSIONS							
DIM	INCHES		MM		NOTE		
Dilvi	MIN	MAX	MIN	MAX	NOTE		
Α	0.075	0.096	1.90	2.44			
В	0.050	0.064	1.27	1.63			
С	0.002	0.008	0.051	0.203			
D		0.020		0.51			
E	0.030	0.060	0.76	1.52			
F	0.065	0.091	1.65	2.32			
G	0.189	0.220	4.80	5.59			
Н	0.157	0.187	4.00	4.75			
J	0.090	0.115	2.25	2.92			

#### SUGGESTED SOLDER PAD LAYOUT





## **Curve Characteristics**

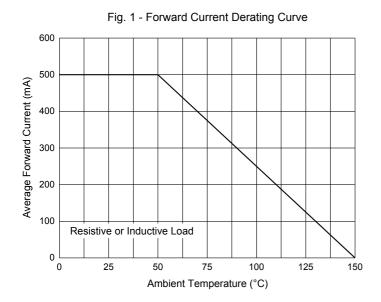
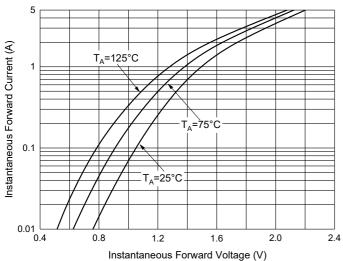


Fig. 3 - Typical Instantaneous Forward Characteristics



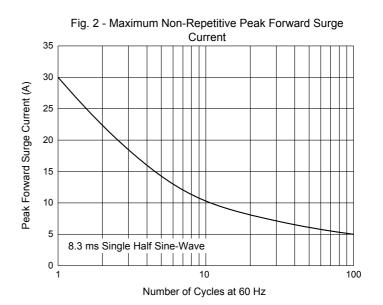
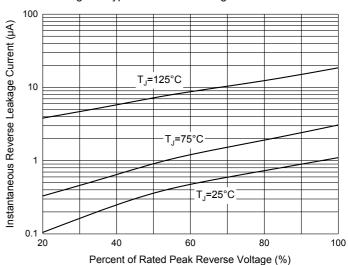


Fig. 4 - Typical Reverse Leakage Characteristics





# **Ordering Information**

Device	Packing	
FM2000GP-TP	Tape&Reel: 7.5Kpcs/Reel	

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