Micro Commercial Components

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FM2000GP

0.5 Amp High Voltage Fast Recovery Glass Passivated Rectifier 2000 Volts

Features

- Lead Free Finish/RoHS Compliant (Note1) ("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 available upon request by adding suffix "-HF"

Maximum Ratings

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

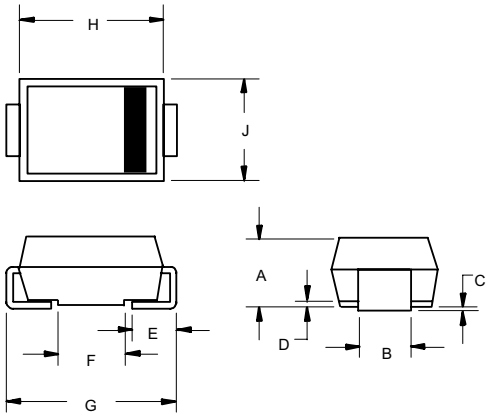
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FM2000GP	FM20	2000V	1400V	2000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	500mA	T_A = 50°C
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	4.0V	I_{FM} = 0.5A; T_A = 50°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0µA 50µA	T_A = 25°C T_A = 100°C
Typical Junction Capacitance	C_J	30pF	Measured at 1.0MHz, V_R=4.0V
Maximum Reverse Recovery Time	T_{rr}	500nS	

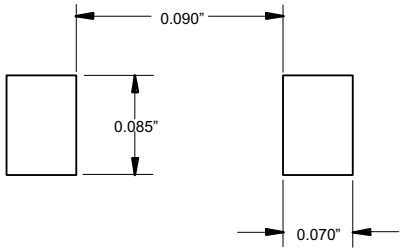
Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

DO-214AC
(SMA) (LEAD FRAME)



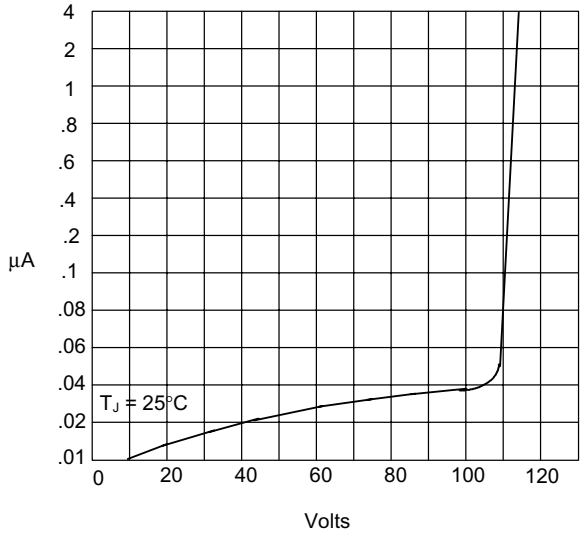
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.079	.096	2.00	2.44	
B	.050	.064	1.27	1.63	
C	---	.006	---	.15	
D	---	.02	---	.51	
E	.030	.060	.76	1.52	
F	.065	.091	1.65	2.32	
G	.189	.220	4.80	5.59	
H	.157	.181	4.00	4.60	
J	.090	.115	2.25	2.92	

SUGGESTED SOLDER PAD LAYOUT



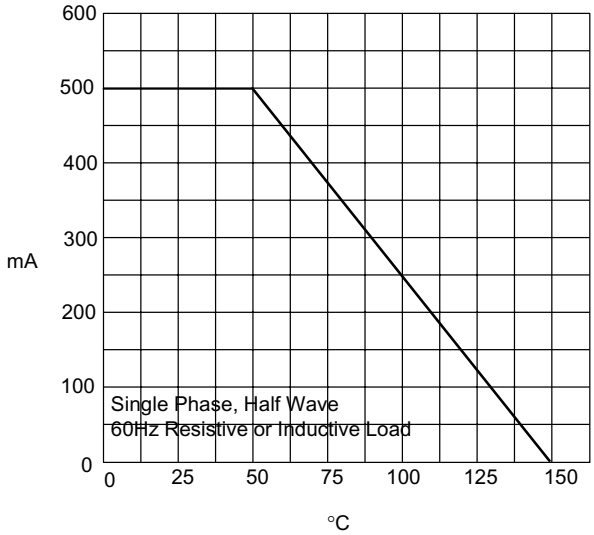
FM2000GP

Figure 1
Typical Reverse Characteristics



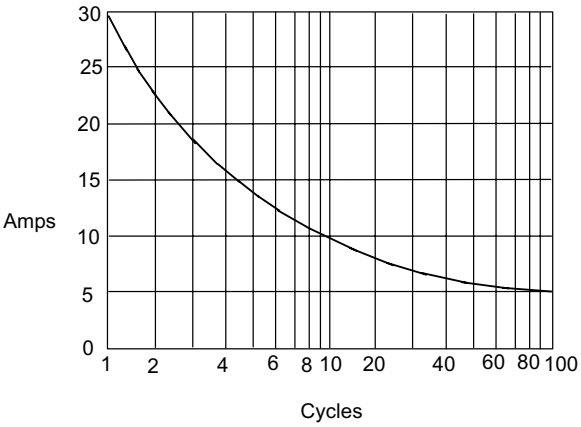
Instantaneous Reverse Current - Micro Amps *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Ambient Temperature -°C

Figure 3
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles

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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. FM2000GP-TP-HF

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