

## Features

- Fast Switching For High Efficiency And Low Leakage
- Glass Passivated Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1)("P" Suffix Designates Compliant. See Ordering Information)

## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 67°C/W Junction to Ambient

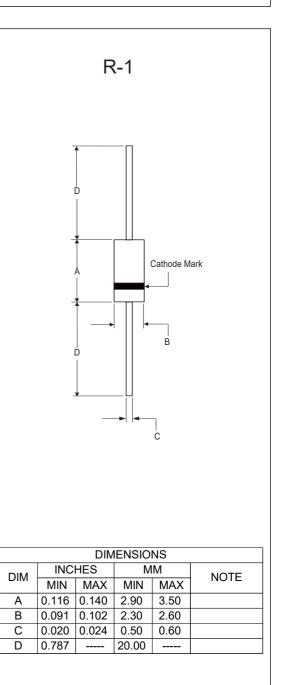
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1F1G	1F1G	50V	35V	50V
1F2G	1F2G	100V	70V	100V
1F3G	1F3G	200V	140V	200V
1F4G	1F4G	400V	280V	400V
1F5G	1F5G	600V	420V	600V
1F6G	1F6G	800V	560V	800V
1F7G	1F7G	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	1.0A	T <sub>A</sub> =55 ℃
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.30V	I <sub>FM</sub> =1.0A; T <sub>J</sub> =25⁰C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μΑ 150μΑ	T <sub>J</sub> =25⁰C; T <sub>J</sub> =125⁰C
Maximum Reverse Recovery Time 1F1G~1F4G 1F5G 1F6G~1F7G	t <sub>rr</sub>	150ns 250ns 500ns	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; Irr=0.25A
Typical Junction Capacitance	CJ	12pF	Measured at 1.0MHz V <sub>R</sub> =4.0V

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

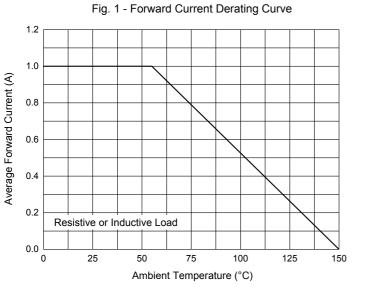
# 1.0 Amp Fast Recovery Rectifier 50 to 1000 Volts

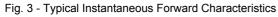


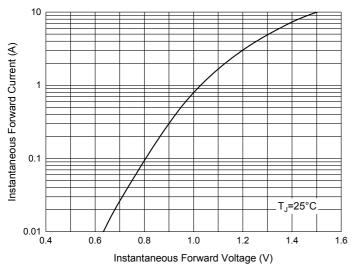


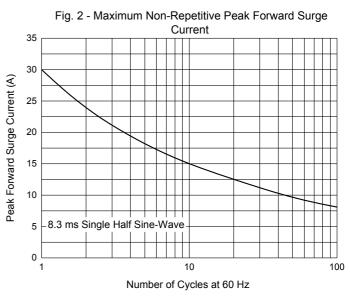


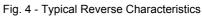
# **Curve Characteristics**

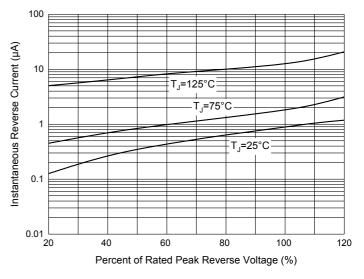














# **Ordering Information**

Device	Packing	
(Part Number)-TP	Tape&Reel: 5Kpcs/Reel	
(Part Number)-AP	Ammo Packing: 3Kpcs/Ammo Box	

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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