

### **Features**

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

# **Maximum Ratings**

- Operating Junction Temperature Range: -55 °C to +150 °C
- Storage Temperature Range: -55 °C to +150 °C
- Typical Thermal Resistance: 50 °C/W Junction to Ambient

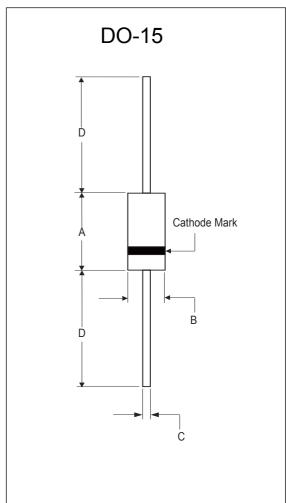
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FR201GP	FR201GP	50V	35V	50V
FR202GP	FR202GP	100V	70V	100V
FR203GP	FR203GP	200V	140V	200V
FR204GP	FR204GP	400V	280V	400V
FR205GP	FR205GP	600V	420V	600V
FR206GP	FR206GP	800V	560V	800V
FR207GP	FR207GP	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	2.0A	T <sub>A</sub> =55 °C
Peak Forward Surge Current	I <sub>FSM</sub>	60A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.30V	I <sub>FM</sub> =2.0A; T <sub>J</sub> =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μA 100μA	T <sub>J</sub> =25°C; T <sub>J</sub> =100°C
Maximum Reverse Recovery Time FR201GP~204GP FR205GP FR206GP~207GP	-11	150ns 250ns 500ns	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; Irr=0.25A
Typical Junction Capacitance	CJ	40pF	Measured at 1.0MHz V <sub>R</sub> =4.0V

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

# 2 Amp Fast Recovery Rectifier 50 to 1000 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.230	0.300	5.80	7.60		
В	0.104	0.140	2.60	3.60		
С	0.026	0.035	0.70	0.90		
D	1.000		25.40			



## **Curve Characteristics**

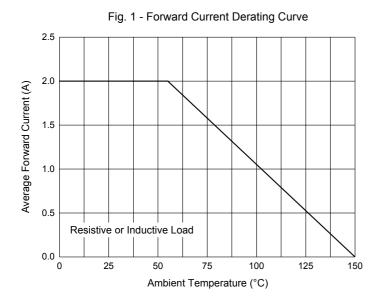
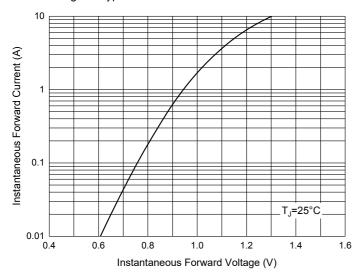


Fig. 3 - Typical Instantaneous Forward Characteristics



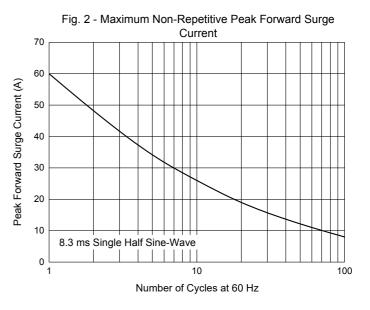
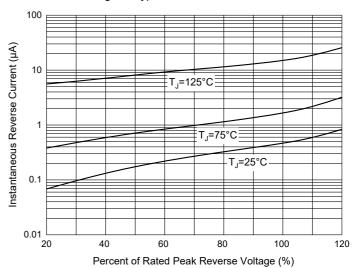


Fig. 4 - Typical Reverse Characteristics





# **Ordering Information**

Device	Packing	
(Part Number)-TP	Tape&Reel: 4Kpcs/Reel	
(Part Number)-BP	Bulk: 25Kpcs/Carton	

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

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