

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Moisture Sensitivity Level 1
- · Glass Passivated Junction
- Fast Switching Speed For High Efficiency
- 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: 30°C/W Junction to Ambient

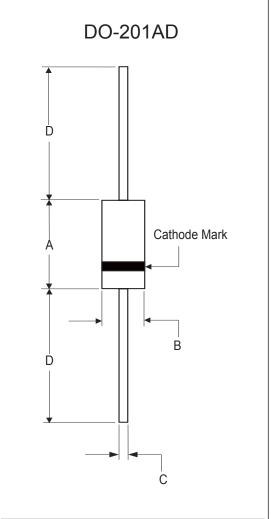
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FR501GP	FR501GP	50V	35V	50V
FR502GP	FR502GP	100V	70V	100V
FR503GP	FR503GP	200V	140V	200V
FR504GP	FR504GP	400V	280V	400V
FR505GP	FR505GP	600V	420V	600V
FR506GP	FR506GP	V008	560V	800V
FR507GP	FR507GP	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

I _{F(AV)}	5.0A	T _A =55 °C
I _{FSM}	200A	8.3ms,Half Sine
V _F	1.35V	I _{FM} =5.0A; T _J =25°C
I _R	10.0μA 150μA	T _J =25°C; T _J =55°C
t _{rr}	150ns 250ns 500ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
CJ	65pF	Measured at 1.0MHz V _R =4.0V
	I _{FSM} V _F I _R	I _{FSM} 200A V _F 1.35V I _R 10.0μA 150μA t _{rr} 150ns 250ns 500ns

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

5.0 Amp Fast Recovery Rectifier 50 to 1000 Volts



DIM INCHES MM MIN MAX MIN MAX A 0.287 0.374 7.30 9.50 B 0.189 0.208 4.80 5.30	NOTE
MIN MAX MIN MAX A 0.287 0.374 7.30 9.50	NOTE
B 0.189 0.208 4.80 5.30	
C 0.048 0.052 1.20 1.30	
D 1.000 25.40	



Curve Characteristics

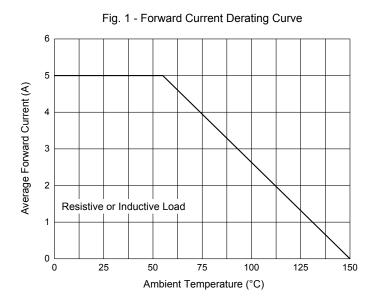


Fig. 3 - Typical Instantaneous Forward Characteristics

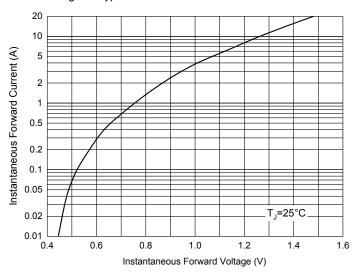


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

250

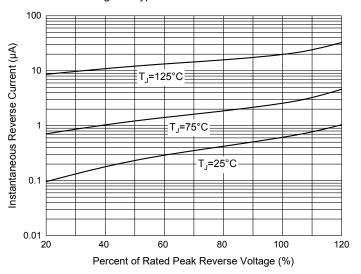
150

150

8.3 ms Single Half Sine-Wave

Fig. 4 - Typical Reverse Characteristics

Number of Cycles at 60 Hz





Ordering Information

Device	Packing	
(Part Number)-TP	Tape&Reel: 1.2Kpcs/Reel	
(Part Number)-AP	Ammo Packing: 1.2Kpcs/Ammo Box	
(Part Number)-BP	Bulk: 12Kpcs/Carton	

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

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