

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- · 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: 50 °C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FR151GP	FR151GP	50V	35V	50V
FR152GP	FR152GP	100V	70V	100V
FR153GP	FR153GP	200V	140V	200V
FR154GP	FR154GP	400V	280V	400V
FR155GP	FR155GP	600V	420V	600V
FR156GP	FR156GP	800V	560V	800V
FR157GP	FR157GP	1000V	700V	1000V

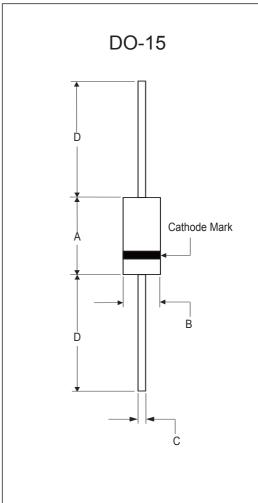
Electrical Characteristics @ 25°C Unless Otherwise Specified

I _{F(AV)}	1.5A	T _A =55 °C			
I _{FSM}	50A	8.3ms,Half Sine			
V _F	1.30V	I _{FM} =1.5A; T _J =25°C *			
I _R	5.0μA 100μA	T _J =25°C; T _J =100°C			
-11	150ns 250ns 500ns	I _F =0.5A; I _R =1.0A; Irr=0.25A			
CJ	20pF	Measured at 1.0MHz V _R =4.0V			
	I _{FSM} V _F I _R	I _{FSM} 50A V _F 1.30V I _R 5.0μA 100μA t _{rr} 150ns 250ns 500ns			

^{*}Pulse Test: Pulse Width 300msec, Duty Cycle 1%

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

1.5 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

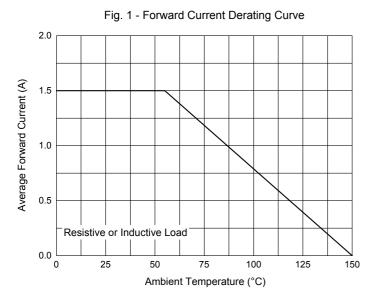


Fig. 3 - Typical Instantaneous Forward Characteristics

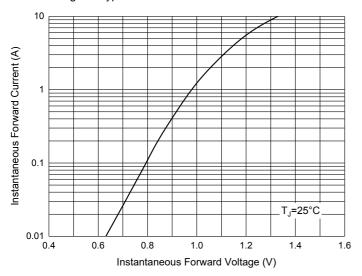


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

40

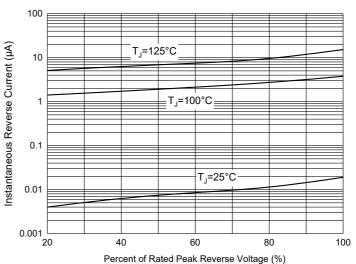
40

40

8.3 ms Single Half Sine-Wave

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Characteristics





Ordering Information

Device	Packing	
(Part Number)-TP	Tape&Reel: 4Kpcs/Reel	
(Part Number)-AP	Ammo Packing: 3Kpcs/Ammo Box	
(Part Number)-BP	Bulk:500pcs/Box,25Kpcs/Carton	

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

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