

Features

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

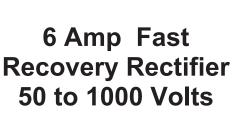
Maximum Ratings

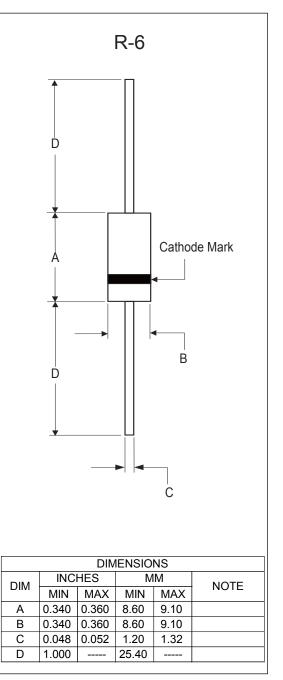
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 15°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FR601GP	FR601GP	50V	35V	50V
FR602GP	FR602GP	100V	70V	100V
FR603GP	FR603GP	200V	140V	200V
FR604GP	FR604GP	400V	280V	400V
FR605GP	FR605GP	600V	420V	600V
FR606GP	FR606GP	800V	560V	800V
FR607GP	FR607GP	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward Current	I _{F(AV)}	6.0A	T _A =55 ⁰C
Peak Forward Surge Current	I _{FSM}	200A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.30V	I _{FM} =6.0A; T _J =25⁰C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10.0μΑ 150μΑ	Tյ=25⁰C; Tյ=100⁰C
Maximum Reverse Recovery Time FR601GP~FR604GP FR605GP FR606GP~FR607GP	t _{rr}	150ns 250ns 500ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
Typical Junction Capacitance	CJ	150pF	Measured at 1.0MHz V _R =4.0V





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



Curve Characteristics

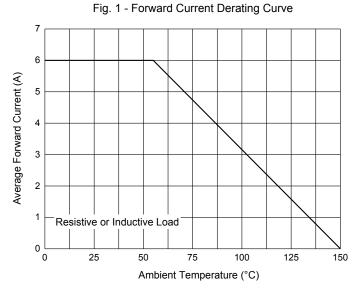
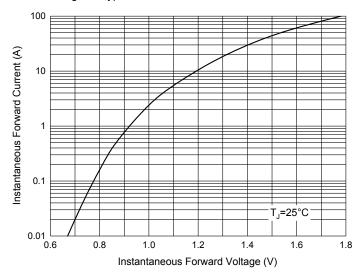


Fig. 3 - Typical Instantaneous Forward Characteristics



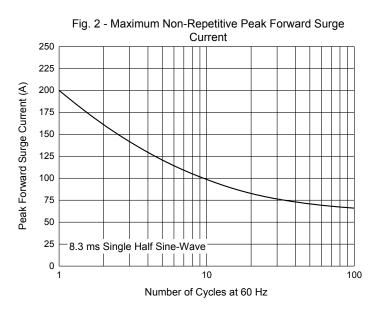
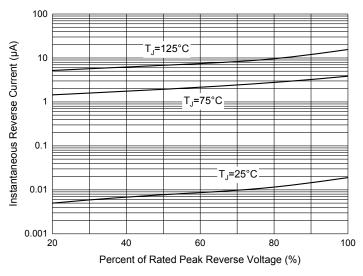


Fig. 4 - Typical Reverse Characteristics





Ordering Information

Device	Packing	
(Part Number)-TP	Tape&Reel: 500pcs/Reel	
(Part Number)-AP	Ammo Packing: 450pcs/Ammo Box	
(Part Number)-BP	Bulk: 200pcs/Box ;4.8Kpcs/Carton	

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

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