

Features

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

Maximum Ratings

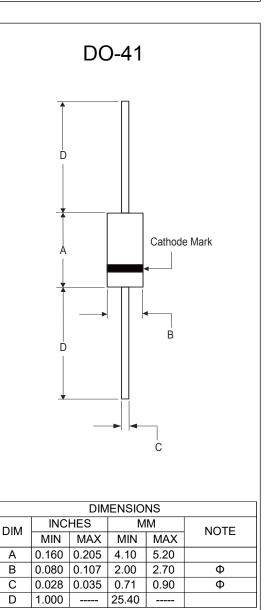
- Operating Junction Temperature Range: -55 °C to +150 °C
- Storage Temperature Range: -55 °C to +150 °C
- Typical Thermal Resistance: 60 °C/W Junction to Ambient
- Typical Thermal Resistance: 25 °C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FR101GP	FR101GP	50V	35V	50V
FR102GP	FR102GP	100V	70V	100V
FR103GP	FR103GP	200V	140V	200V
FR104GP	FR104GP	400V	280V	400V
FR105GP	FR105GP	600V	420V	600V
FR106GP	FR106GP	800V	560V	800V
FR107GP	FR107GP	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	See Fig.1
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V_{F}	1.30V	I _{FM} =1.0A; T _J =25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μΑ 100μΑ	T _J =25⁰C; T _J =100ºC
Maximum Reverse Recovery Time FR101GP-104GP FR105GP FR106GP-107GP	t _{rr}	150ns 250ns 500ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz V_R =4.0V

1.0 Amp Fast Recovery Rectifier 50 to 1000 Volts



*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

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





Curve Characteristics

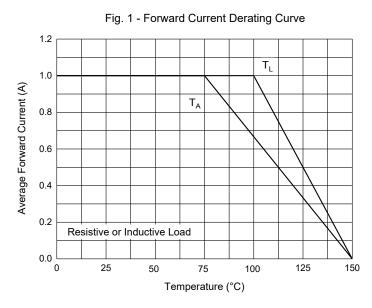
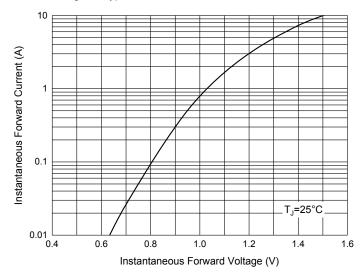


Fig. 3 - Typical Instantaneous Forward Characteristics



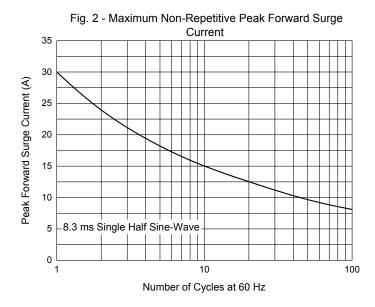
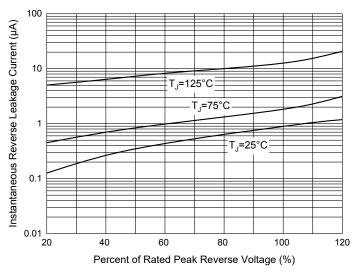


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
(Part Number)-TP	Tape&Reel: 5Kpcs/Reel	
(Part Number)-AP	Ammo Packing: 5Kpcs/Ammo Box	
(Part Number)-BP	Bulk:1Kpcs/Box,50Kpcs/Carton	

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

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