

Features

- Low Current Leakage
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("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: 35°C/W Junction to Case (Note 2)
- Typical Thermal Resistance: 25°C/W Junction to Lead(Note 2)
- Typical Thermal Resistance: 50°C/W Junction to Ambient(Note 2)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N4001	1N4001	50V	35V	50V
1N4002	1N4002	100V	70V	100V
1N4003	1N4003	200V	140V	200V
1N4004	1N4004	400V	280V	400V
1N4005	1N4005	600V	420V	600V
1N4006	1N4006	800V	560V	800V
1N4007	1N4007	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

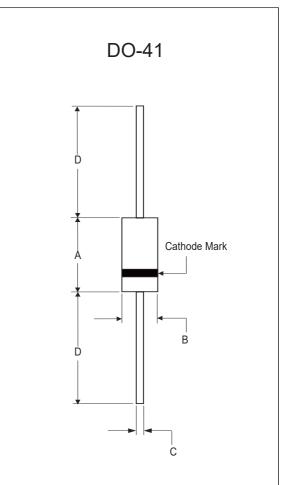
Average Forward Current	I _{F(AV)}	1.0A	T _A =75°C	
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine	
Maximum Instantaneous Forward Voltage	V _F	1.0V	I _{FM} =1.0A; T _J =25°C(Note 3)	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 50μA	T _J =25°C; T _J =125°C	
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz V _R =4.0V	
Typical Reverse Recovery Time	t _{rr}	2.0µS	I _F =0.5A; I _R =1.0A; Irr=0.25A	
Rating for fusing	I ² t	3.7A ² S	t<8.3ms	
Maximum Full Load Reverse Current	I _{R(AV)}	30μΑ	Full Cycle Average 0.375" Lead Length $T_L = 75$ °C	

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

2.At 0.375" Lead Length P.C.B. Mounted.

3. Pulse Test: Puls Width 300 usec, Duty Cycle 2%.

1.0 Amp Rectifier 50 to 1000 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.160	0.205	4.10	5.20		
В	0.080	0.107	2.00	2.70	Ф	
С	0.028	0.034	0.71	0.90	Ф	
D	1.000		25.40			



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

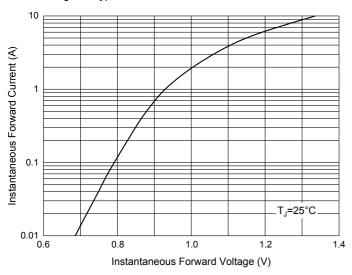


Fig. 3 - Forward Current Derating Curve

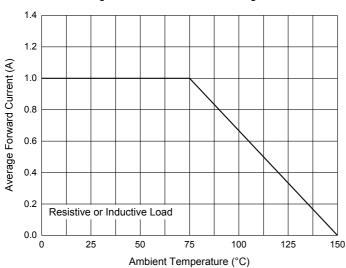


Fig. 2 - Typical Reverse Leakage Characteristics

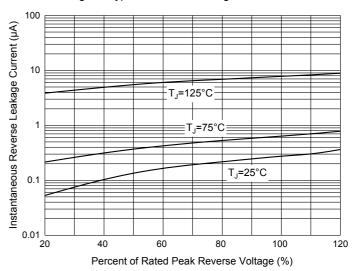
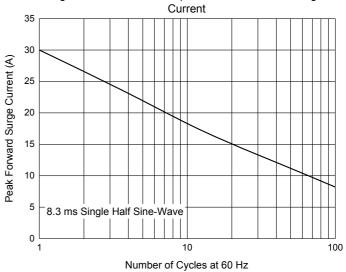


Fig. 4 - Maximum Non-Repetitive Peak Forward Surge





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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