

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Maximum 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
BA157GP	BA157GP	400V	280V	400V
BA158GP	BA158GP	600V	420V	600V
BA159GP	BA159GP	1000V	700V	1000V

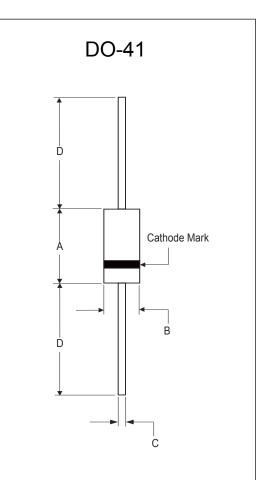
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _A =55 °C
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	5.0µA	T _J =25°C
Maximum Reverse Recovery Time BA157GP~BA158GP BA159GP	t _{rr}	150ns 250ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz V _R =4.0V

^{*}Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

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

1.0 Amp Fast Recovery Rectifier 400 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	0.035	0.71	0.90	Ф		
D	1.000		25.40				



Curve Characteristics

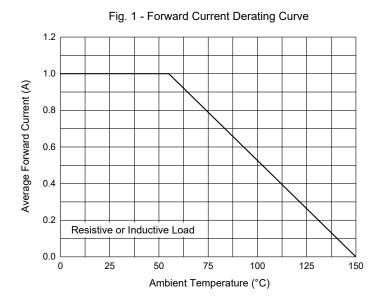


Fig. 3 - Typical Instantaneous Forward Characteristics

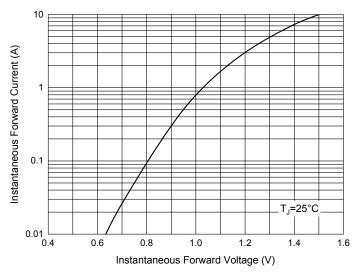
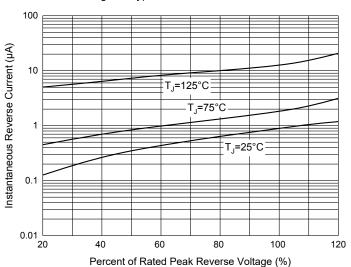


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

35
30
20
15
8.3 ms Single Half Sine-Wave
0
1 10 100
Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse 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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