

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

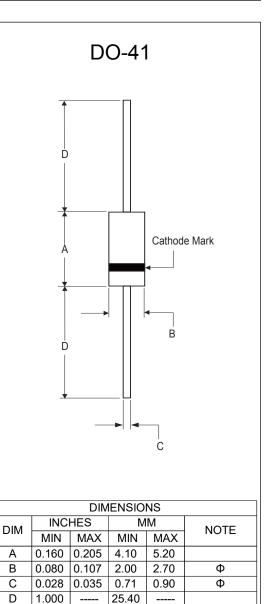
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _A =55 ℃
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 =25ºC*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0µA	T _J =25⁰C
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







Curve Characteristics

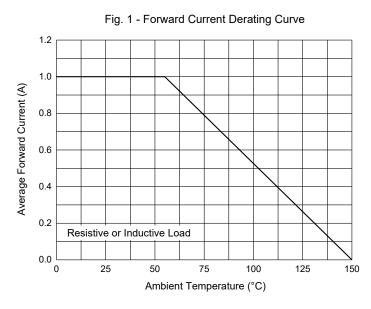
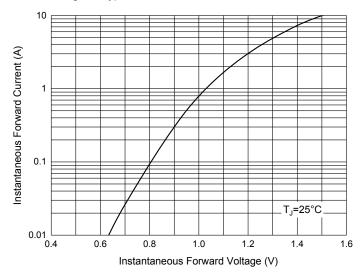


Fig. 3 - Typical Instantaneous Forward Characteristics



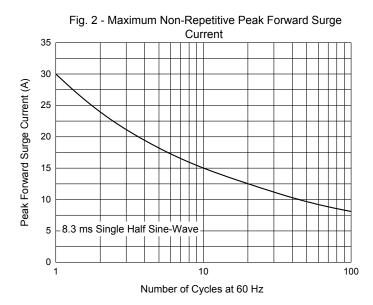
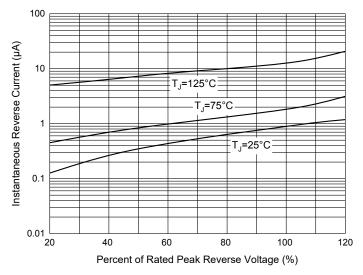


Fig. 4 - Typical Reverse Characteristics





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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages. *Micro Commercial Components Corp*. products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources**. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC): BA158GP-TP BA159GP-TP BA158GP-AP BA159GP-AP