

### **Features**

- Low Current Leakage And Low Cost
- Glass Passivated Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- 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: 25°C/W Junction to Lead

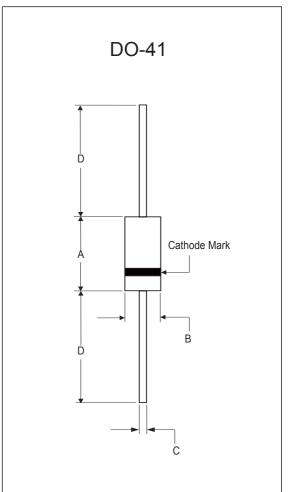
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BY133GP	BY133GP	1300V	910V	1300V

# Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	1.0A	T <sub>A</sub> =75°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.1V	I <sub>FM</sub> =1.0A; T <sub>J</sub> =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μA 500μA	T <sub>J</sub> =25°C; T <sub>J</sub> =100°C
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz V <sub>R</sub> =4.0V

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

# 1.0 Amp Glass Passivated Rectifier 1300 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**

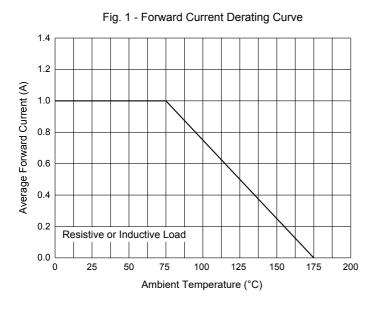


Fig. 3 - Typical Instantaneous Forward Characteristics

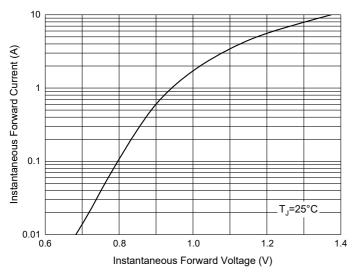
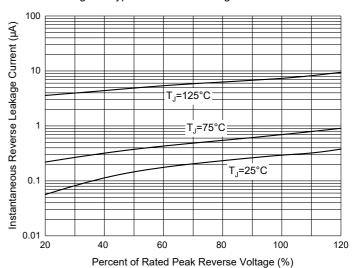


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

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

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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