

**BA157
THRU
BA159**

Features

- Halogen free available upon request by adding suffix "-HF"
- Low Leakage Current
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Fast Switching For High Efficiency
- High emperature soldering guaranteed:260°C /10 seconds
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix designates Compliant.)

Maximum Ratings

- Operating Temperature: -65°C to +125°C
- Storage Temperature: -65°C to +125°C
- Maximum Thermal Resistance; 25°C/W Junction To Lead

Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BA157	BA157	400V	280V	400V
BA158	BA158	600V	420V	600V
BA159	BA159	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

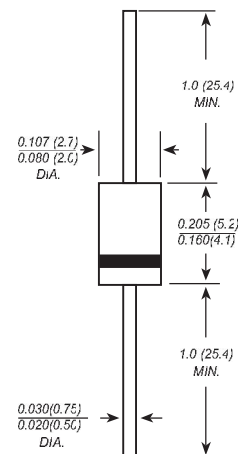
Average Forward Current	$I_{F(AV)}$	1.0A	$T_A = 50^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	35A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.3V	$I_{FM} = 1.0\text{A}; T_A = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0 μA	$T_J = 25^\circ\text{C}$
Maximum Reverse Recovery Time	T_{rr}	150nS 250nS	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$
Typical Junction Capacitance	C_J	15pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

*Pulse test: Pulse width 300 μsec , Duty cycle 2%

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

**1 Amp Fast Recovery Rectifier
400~1000 Volts**

DO-41



Dimensions in inches and (millimeters)



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