BA157 THRU BA159

FAST SWITCHING PLASTIC RECTIFIER VOLTAGE - 400 to 1000 Volts CURRENT - 1.0 Ampere

FEATURES

- High surge current capability
- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O Utilizing
 Flame Retardant Epoxy Molding Compound
- Void-free Plastic in a DO-41 package
- 1.0 ampere operation at T_A=55 **¢J** with no thermal runaway
- Fast switching for high efficiency
- Exceeds environmental standards of MIL-S-19500/228

MECHANICAL DATA

Case: Molded plastic, DO-41

Terminals: Axial leads, solderable per MIL-STD-202,

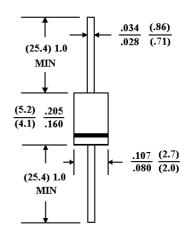
Method 208

Polarity: Band denotes cathode

Mounting Position: Any

Weight: 0.012 ounce, 0.3 gram

<u>DO-41</u>



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 (ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	BA157	BA158	BA159	UNITS
Maximum Recurrent Peak Reverse Voltage	400	600	1000	V
Maximum RMS Voltage	280	420	700	V
Maximum DC Blocking Voltage	400	600	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at T _A =55 ¢ J	1.0			А
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load(JECEC method)	30			A
Maximum Forward Voltage at 1.0A	1.3			V
Maximum Reverse Current T _J =25 ¢J	5.0			£g A
at Rated DC Blocking Voltage T _J =100 ¢J	500			
Typical Junction capacitance (Note 1)	12			₽F
Maximum Reverse Recovery Time(Note 2)	15	50	250	ns
Operating and Storage Temperature Range	-55 to +150			¢J

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 2. Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, I_{rr}=.25A



RATING AND CHARACTERISTIC CURVES BA157 THRU BA159

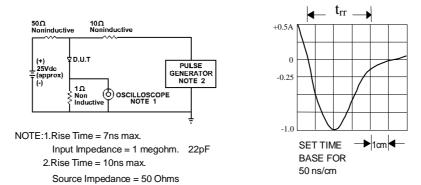


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

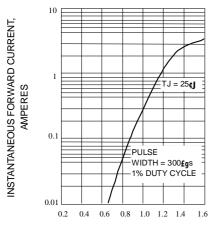




Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

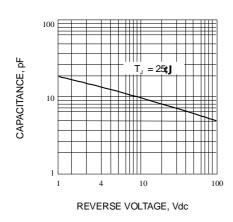


Fig. 4-TYPICAL JUNCTION CAPACITANCE



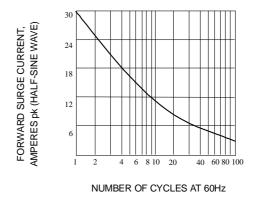


Fig. 5-PEAK FORWARD SURGE CURRENT

