BA157 THRU BA159

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

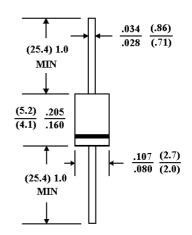
FEATURES

- 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 $T_A=55 \text{ } \text{cJ}$ 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 ¢J 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
400	600	1000	V
280	420	700	V
400	600	1000	V
1.0		A	
30			A
1.3			V
5.0 500			£g A
12			₽F
1	50	250	ns
-55 to +150		¢J	
	400 280 400	400 600 280 420 400 600 1.0 30 1.3 5.0 500 500 12 150	400 600 1000 280 420 700 400 600 1000 1.0 30 1.3 5.0 500 500 12 150 250

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

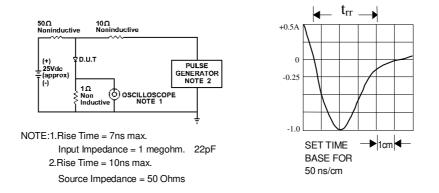
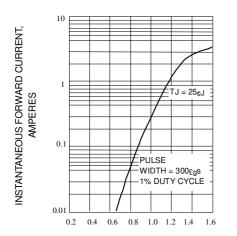


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



AVERAGE FORWARD RECTIFIED 1.6 CURRENT AMPERES 1.4 MAXIMUM AVERAGE CURRENT RATING 1.2 SINGLE PHASE, HALF WAVE 60Hz 1.0 RESISTIVE OR INDUCTIVE -LOAD .375"(9.5mm) LEAD LENGTHS .8 .6 .4 .2 0 0 20 40 60 80 100 120 140 160 180 AMBIENT TEMPERATURE, ¢J

INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

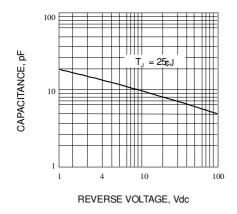


Fig. 4-TYPICAL JUNCTION CAPACITANCE

Fig. 3-FORWARD CURRENT DERATING CURVE

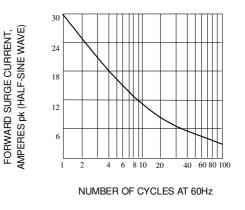


Fig. 5-PEAK FORWARD SURGE CURRENT



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Datasheets for electronics components.