

BA157 - BA159

VOLTAGE RANGE - 400 to 1000 V CURRENT - 1 A

FEATURES

- Low cost construction
- Fast switching for high efficiency.
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 secods/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

Case: Transfer molded plastic

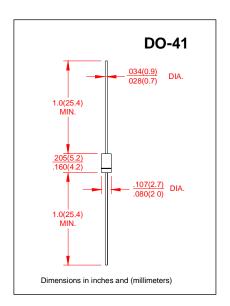
• Epoxy: UL94V-O rate flame retardant

• Polarity: Color band denotes cathode end

• Lead: Plated axial lead, solderable per MIL-STD-202E method 208C

Mounting position: Any

■ Weight: 0.012 ounce, 0.33 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified Single Phase, half wave, 60Hz, resistive or inductive load for capacitive load derate current by 20%

		SYMBOLS	BA157	BA158	BA159	UNITS
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	400	600	1000	Volts
Maximum RMS Voltage		V_{RMS}	280	420	700	Volts
Maximum DC Blocking Voltage		V_{DC}	400	600	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at T_A = 75 $^{\circ}$ C		I _(AV)	1.0			Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I_{FSM}	30			Amps
Maximum Instantaneous Forward Voltage @ 1.0A		$V_{\rm F}$	1.3			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25 ℃	I_R	5.0			μА
	T _A = 100 °C		100			
Maximum Reverse Recovery Time (Note 3) T _J =25 °C		trr	150	250	300	ns
Typical Junction Capacitance (Note 1)		C_{J}	15			pF
Typical Thermal Resistance (Note 2)		$R_{ heta JA}$	50			°C/W
Operating Junction Temperature Range		T_{J}	(-55 to +150)			°C
Storage Temperature Range		T_{STG}	(-55 to +150)			$^{\circ}$ C

Notes:

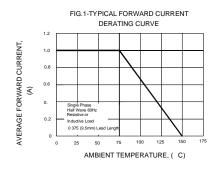
- 1. Measured at 1.0MHz and Applied Reverse Voltage of 4.0Volits.
- 2 Thermal Resistance from junction to Ambient at .375"(9.5mm)lead length, P.C.board mounted.
- 3. Reverse Recovery Test Conditions: If=0.5A, Ir=1.0A, Irr=0.25A

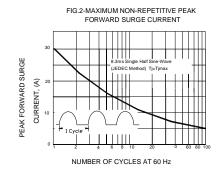
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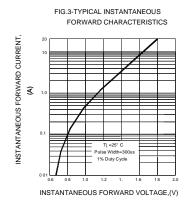
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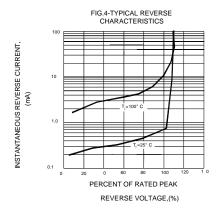
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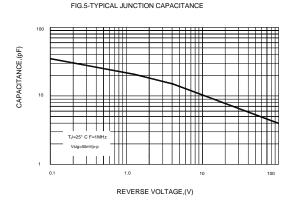
RATING AND CHRACTERISTIC CURVES BA157 - BA159

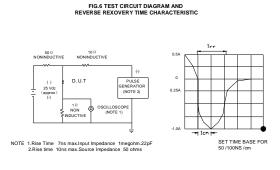












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