

1 AMP FAST RECOVERY SILICON RECTIFIERS BA157 THRU BA159

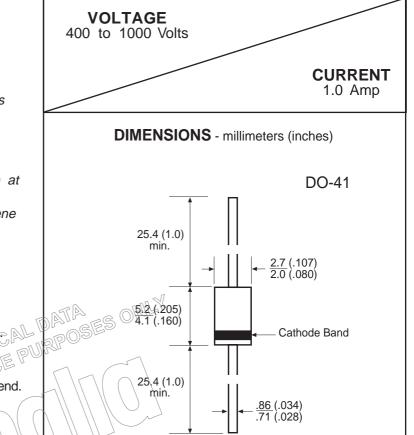
TECHNICAL SPECIFICATION

FEATURES

- Fast recovery times for high efficiency
- Low cost construction utilizing void free moulded plastic technique
- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- High surge current capability Low leakage
- High temperature soldering capability 250°C/10 seconds/9.5mm (.375in.) lead length at 2.3kg (5lb) tension
- Easily cleaned with Freon, Alcohol, Chlorothene and other similar solvents



Case	: JEDEC DO-41, moulded plastic
Terminals	: Plated axial leads, solderable per MIL-STD-202, Method 208
Polarity	: Colour band denotes cathode end.
Mounting Position	: Any FOR RUS
Weight	: 0.3 grams (0.012 ounce)



10 A9

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

93 O 1 °	Symbols	BA157	BA158	BA159	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	400	600	1000	V
Maximum RMS Voltage		280	420	700	V
Maximum DC Blocking Voltage	V _{DC}	400	600	1000	V
Maximum Average Forward Rectified Current 9.5mm (.375in.) Lead Length at $T_A = 75^{\circ}C$		1.0			A
Peak Forward Surge Current, 8.3 ms single half sine - wave superimposed on rated load		30			A
Maximum Instantaneous Forward Voltage at 1.0A		1.2			V
	25°C I _R		5.0		μA
DC Blocking Voltage T _A =	100°C	100			μA
Maximum Reverse Recovery Time (see Note 3)	t _{rr}	150	250	500	nS
Typical Junction Capacitance (see Note 1)		15			pF
Typical Thermal Resistance (see Note 2)		50			°C/W
Operating Temperature Range		- 50 to + 175			°C
Storage Temperature Range		- 50 to + 175			°C

Notes :

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

2. Thermal Resistance from Junction to Ambient

3. Test Conditions : $I_F = 0.5A$, $I_R = 1.0A$ recovery to 0.25A



BA157 THRU BA159

RATING AND CHARACTERISTIC CURVES

