

## DC COMPONENTS CO., LTD.

### RECTIFIER SPECIALISTS

BA157 THRU BA159

# TECHNICAL SPECIFICATIONS OF FAST RECOVERY RECTIFIER VOLTAGE RANGE - 400 to 1000 Volts CURRENT - 1.0 Ampere

#### **FEATURES**

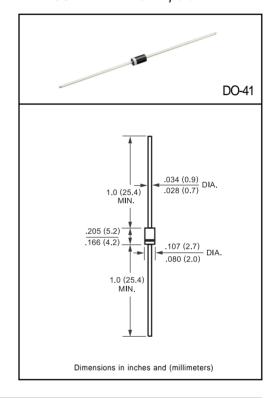
- \* Fast switching
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* High surge capability
- \* High reliability

#### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Mounting position: Any
- \* Weight: 0.33 gram

#### 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%.

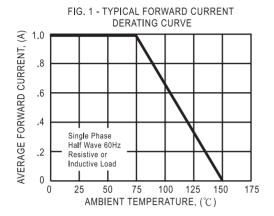


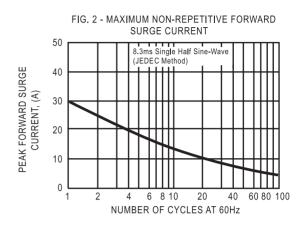
	SYMBOL	BA157	BA158	BA159	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	400	600	1000	Volts
Maximum RMS Voltage	VRMS	280	420	700	Volts
Maximum DC Blocking Voltage	VDC	400	600	1000	Volts
Maximum Average Forward Rectified Current at TA = 75°C	Ю	1.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30			Amps
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	1.3			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C	le.	5.0			uAmps
Maximum Full Load Reverse Current Full Cycle Average, .375*(9.5mm) lead length at T L = 55°C	lr lr	100			uAmps
Maximum Reverse Recovery Time (Note 1)	trr	150	250	500	nSec
Typical Junction Capacitance (Note 2)	Cı	15			pF
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150			۰C

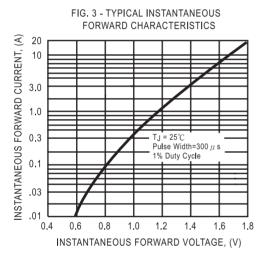
NOTES: 1. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

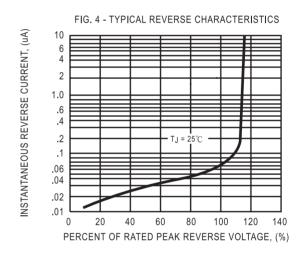
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts

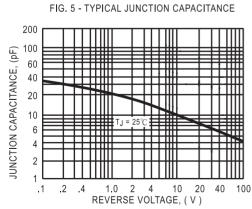
#### RATING AND CHARACTERISTIC CURVES (BA157 THRU BA159)











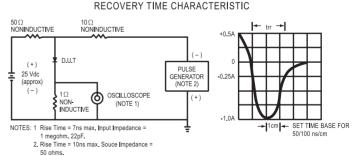


FIG. 6 - TEST CIRCUIT DIAGRAM AND REVERSE



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www.datasheetcatalog.com

Datasheets for electronics components.