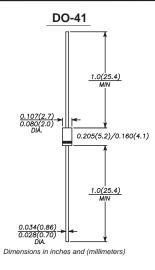
BA157 THRU BA159

FAST RECOVERY RECTIFIERS

Reverse Voltage - 400 to 1000 Volts Forward Current - 1.0 Ampere



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guarantéed: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-41 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

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 current derate by 20%.

	SYMBOLS	BA157	BA158	BA159	UNITS		
Maximum repetitive peak reverse voltage	VRRM	400	600	1000	V		
Maximum RMS voltage	VRMS	280	420	700	V		
Maximum DC blocking voltage	VDC	400	600	1000	V		
Maximum average forward rectified current	I(AV)	1.0					
0.375"(9.5mm) lead length at Ta=75°C	I(AV)	1.0			A		
Peak forward surge current							
8.3ms single half sine-wave superimposed on	IFSM	IFSM 30.0			Α		
rated load (JEDEC Method)							
Maximum instantaneous forward voltage at 1.0A	VF		1.3		V		
Maximum DC reverse current Ta=25°C	T .	5.0 50.0			μА		
at rated DC blocking voltage Ta=100℃	l _R						
Maximum reverse recovery time (NOTE 1)	trr	150	250	500	ns		
Typical junction capacitance (NOTE 2)	Cı	15.0			pF		
Typical thermal resistance (NOTE 3)	RθJA	50.0			°C/W		
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150			°C		

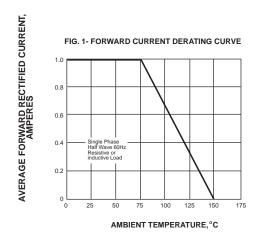
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

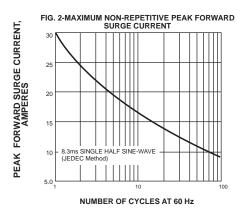
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

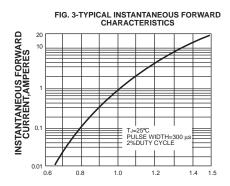
3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

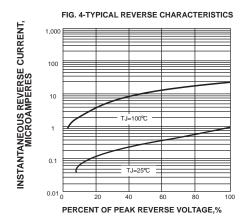


RATINGS AND CHARACTERISTIC CURVES BA157 THRU BA159

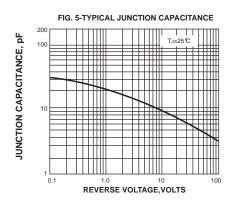


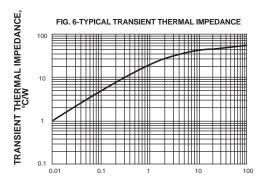












t,PULSE DURATION,sec.

