BA157 THRU BA159

1.0 AMP. Fast Recovery Rectifiers

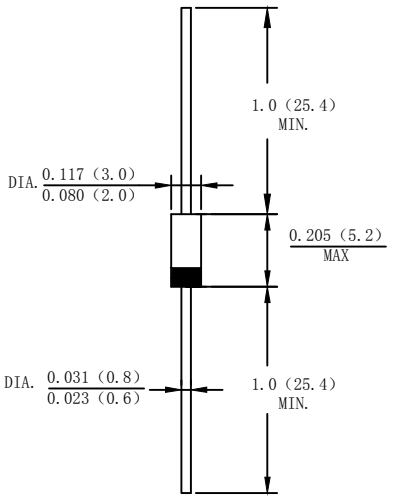
Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: Moeded plastic DO-41
- Terminals: Plated leads solderable per MIL-STD-202,Method 208 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For Rohs/Lead Free Version

DO-41



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified

Single phase,half wave,60Hz,resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	BA157	BA158	BA159	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	600	1000	V
Maximum RMS Voltage	V_{RMS}	280	420	700	V
Maximum DC Blocking Voltage	V_{DC}	400	600	1000	V
Average Rectified Output Current (Note 1) @T_A =55℃	I_O	1.0			A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30			A
Forward Voltage @IF=1.0A	V_{FM}	1.2			V
Peak Reverse Current @T_A =25℃	I_R	5.0			uA
At Rated DC Blocking Voltage @T_A =125 ℃		100			
Maximum Reverse Recovery Time (Note 2)	T_{RR}	150		250	nS
Typical Junction Capacitance (Note 3)	C_J	12			pF
Operating Temperature Range	T_J	-55 to + 125			℃
Storage Temperature Range	T_{STG}	-55 to + 150			℃

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A.

3. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

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FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

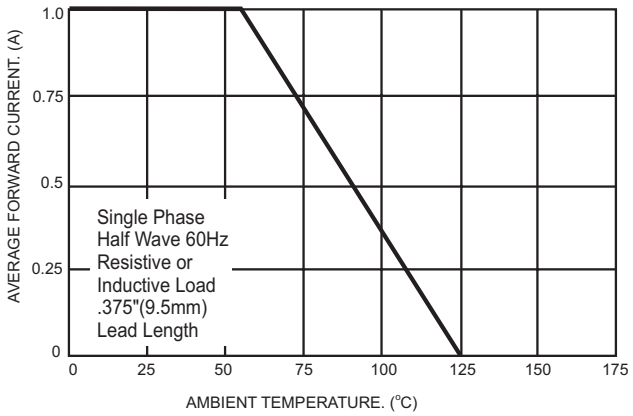

FIG.2- TYPICAL FORWARD CHARACTERISTICS

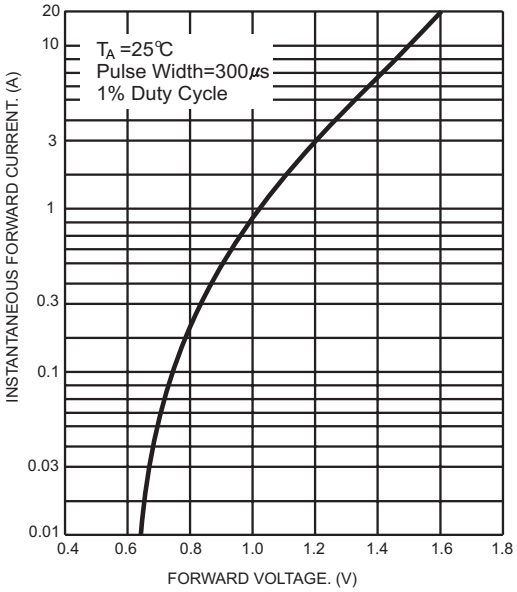

FIG.3- MAXIMUM NON-REPETITIVE PEAK FORDWARD SURGE CURRENT

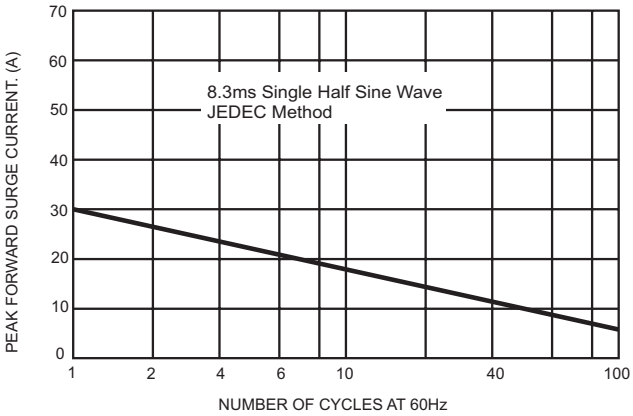

FIG.4- TYPICAL JUNCTION CAPACITANCE