

BA157G thru BA159PG

Fast Switching Plastic Rectifiers

Reverse Voltage 400 to 1000V

Forward Current 1.0A

1.Feature & Dimensions

- * Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- * High surge current capability
- * Fast switching for high efficiency
- * Soft recovery characteristics
- * Cavity-free glass passivated junction
- * High temperature soldering guaranteed: 260°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

2.Mechanical Data

Case: JEDEC DO-41, molded plastic body

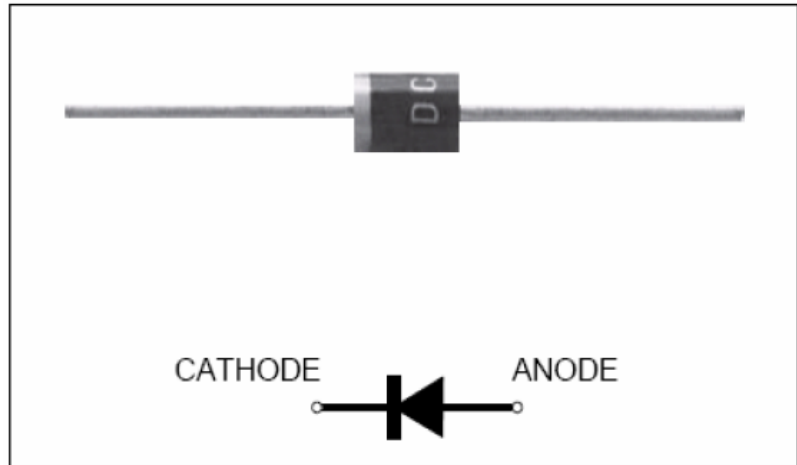
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 oz., 0.34 g

Handling precaution: None



We declare that the material of product compliance with RoHS requirements.

3.Electrical Characteristic

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	BA157G	BA158G	BA159DG	BA159G	BA159PG	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	400	600	800	1000	1000	V
Maximum RMS voltage	V_{RMS}	280	420	560	700	700	V
Maximum DC blocking voltage	V_{DC}	400	600	800	1000	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A = 55^\circ\text{C}$	$I_{F(AV)}$	1.0					A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30					A
Typical thermal resistance (Note 2)	$R_{\theta JA}$	55					$^\circ\text{C/W}$
Operating junction and storage temperature rang	T_J, T_{STG}	-50 to +150					$^\circ\text{C}$

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	BA157G	BA158G	BA159DG	BA159G	BA159PG	Unit
Maximum instantaneous forward voltage at 1.0A	V_F	1.30					V
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 125^\circ\text{C}$	I_R	5.0 100					μA
Typical reverse recovery time (Note 1)	t_{rr}	150	250	500	250	ns	
Typical junction capacitance at 4.0V, 1MHz	C_J	15					PF

NOTES:

1. $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

4. Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

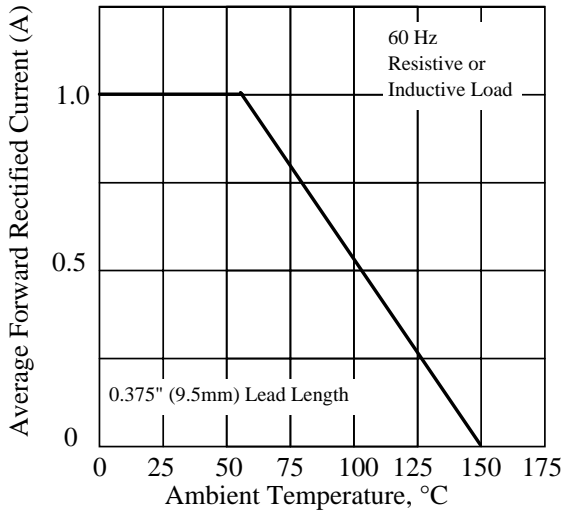


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

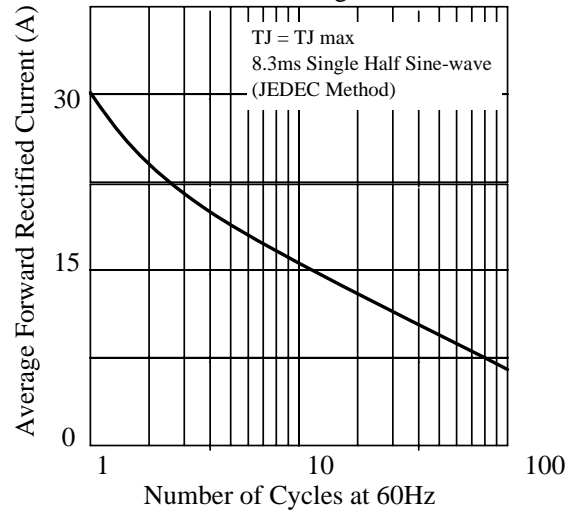


Fig. 3 - Typical Instantaneous Forward Characteristics

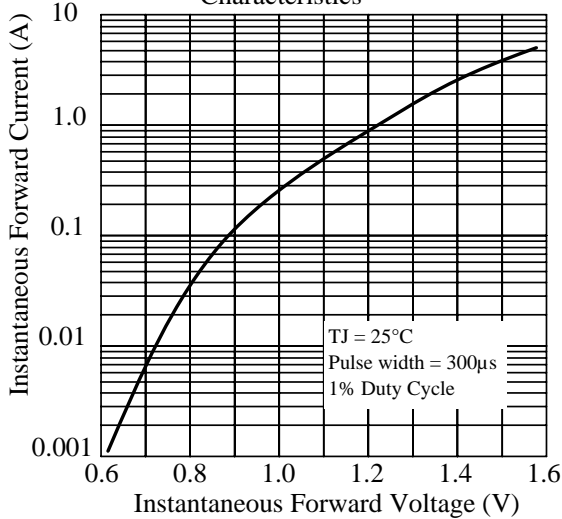


Fig. 4 - Typical Reverse Characteristics

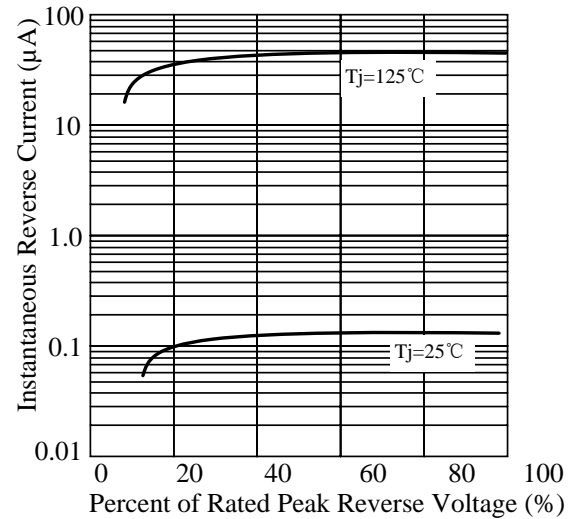


Fig. 5 - typical transient thermal impedance

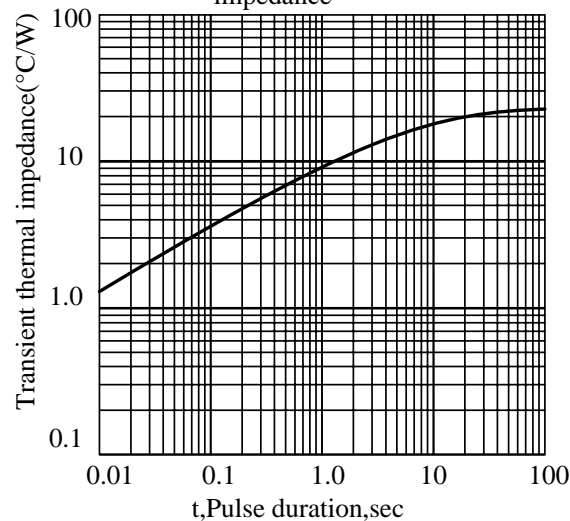
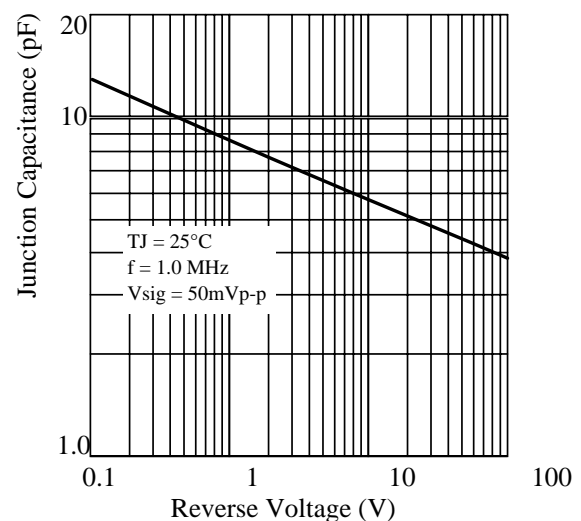


Fig. 6 - Typical Junction Capacitance



5.Package Dimensions in inches and (millimeters)


单击下面可查看定价，库存，交付和生命周期等信息

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