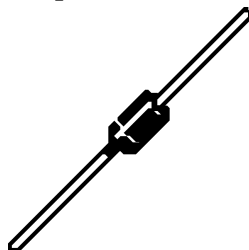


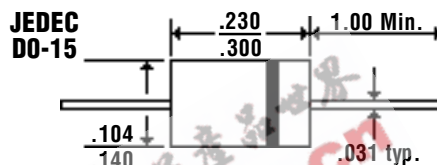
1.0 Amp FAST RECOVERY PLASTIC RECTIFIERS

BA157 ... 159 Series

Description



Mechanical Dimensions



Features

- FAST SWITCHING FOR HIGH EFFICIENCY
- HIGH SURGE CAPABILITY
- 1.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY
- MEETS UL SPECIFICATION 94V-0

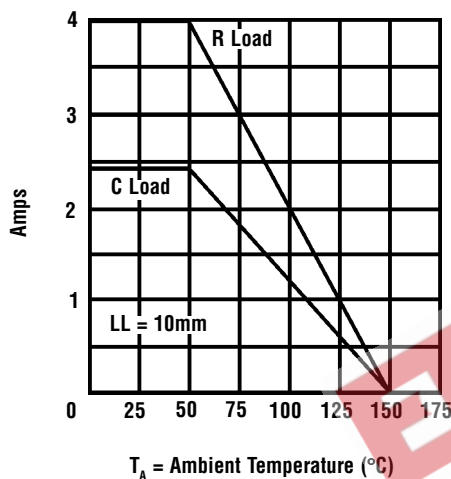
Electrical Characteristics @ 25°C.		BA157 ... 159 Series			Units
Maximum Ratings		BA157	BA158	BA159	
Peak Repetitive Reverse Voltage... V_{RRM}		400	600	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$		280	420	700	Volts
DC Blocking Voltage... V_{DC}		400	600	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 55^\circ\text{C}$ (Note 3)		.....	1.0	.....	Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp		.....	5.0	.....	Amps
		.....	35	.....	Amps
Forward Voltage @ 1.0A... V_F		.....	1.3	.....	Volts
DC Reverse Current... I_R @ 25°C @ Rated DC Blocking Voltage @ 100°C		.....	5.0	.....	μAmps
		.....	100	.....	μAmps
Typical Junction Capacitance... C_j (Note 1)		22	20	18	pF
Typical Thermal Resistance... $R_{\theta JC}$ (Note 2)		.....	60	.....	°C / W
Typical Reverse Recovery Time... t_{RR}		300	300	500	nS
Operating & Storage Temperature Range... T_J, T_{STRG}		.....	-50 to 150	.....	°C



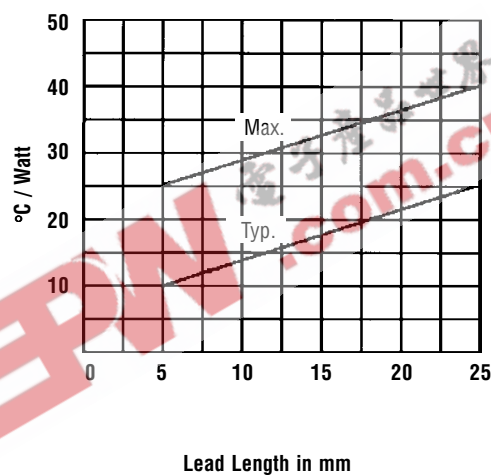
1.0 Amp FAST RECOVERY PLASTIC RECTIFIERS

BA157 ... 159 Series

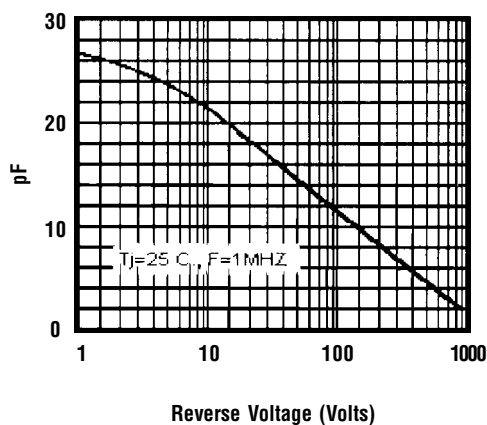
Forward Current Derating Curve



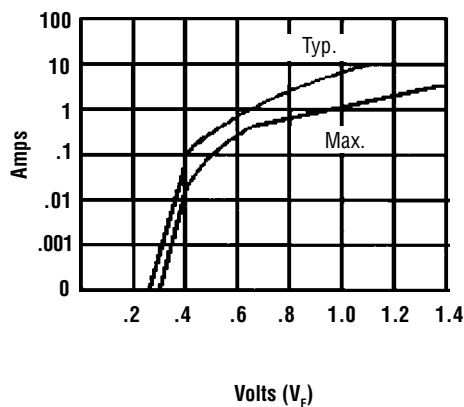
Thermal Resistance Junction to Ambient



Typical Junction Capacitance



Instantaneous Forward Current



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance Junction to Ambient, Jedec Method.
 3. When Mounted to heat sink, from body.