



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

FAST RECOVERY RECTIFIER

VOLTAGE RANGE 400 - 1000 Volts CURRENT 1.0 Ampere

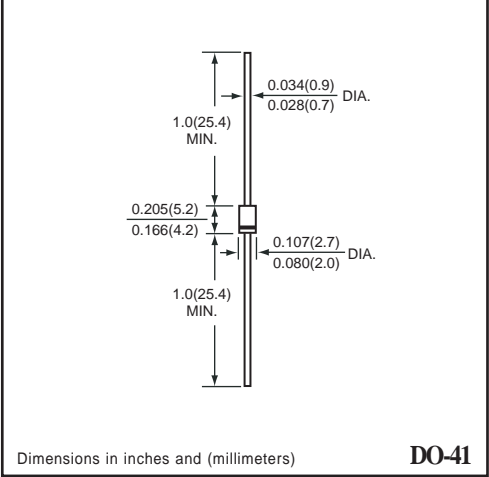
**BA157GP
THRU
BA159GP**

FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Fast Recovery Diodes
- * Diffused junction
- * High current capability

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: 0.33 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%.

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	BA157GP	BA158GP	BA159GP	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 Ambient Temperature = 50°C	Io	1.0			Amps
Recurrent peak forward current	IFRM	9			Amps
10 mm. peak forward surge current	IFSM	35			Amps
Maximum Operating Temperature Range	TJ	+ 150°C			°C
Storage Temperature Range	TSTG	-65 to +150			°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	BA157GP	BA158GP	BA159GP	UNITS
Maximum Instantaneous Forward Voltage at 1.0 A DC	VF	1.3			Volts
Reverse current at VRRM at TA = 25°C	IR	5.0			uAmps
Maximum Reverse Recovery Time (NOTE)	trr	150		250	nS
Capacitance at 1MHZ and VRRM	Cd	2.2	2.0	1.8	pF
Maximum Thermal Resistance (l = 10 mm)	R θJA	60			°C / W

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

2008-01

RATING CHARACTERISTIC CURVES (BA157GP THRU BA159GP)

FIG. 1 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

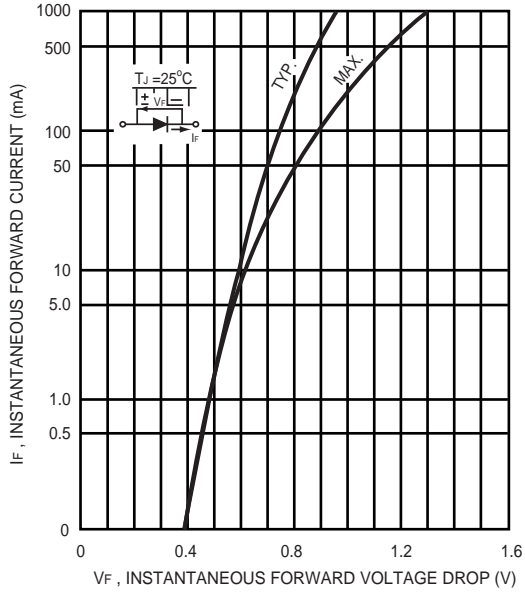


FIG. 2 - TYPICAL THERMAL RESISTANCE CHARACTERISTICS

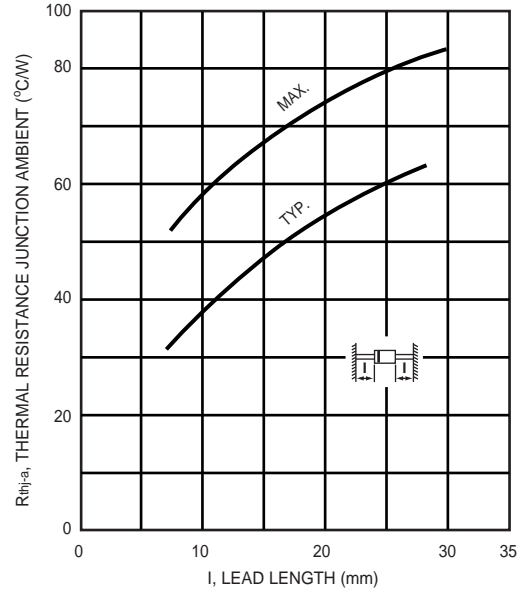


FIG. 3 - TYPICAL FORWARD CURRENT DERATING CURVE

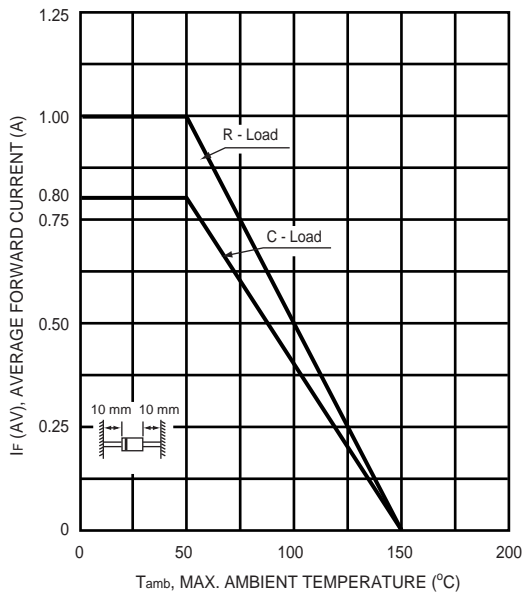


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

