PRESS FIT AVALANCHE AUTOMOTIVE RECTIFIER (LUCAS)

LPRA40M

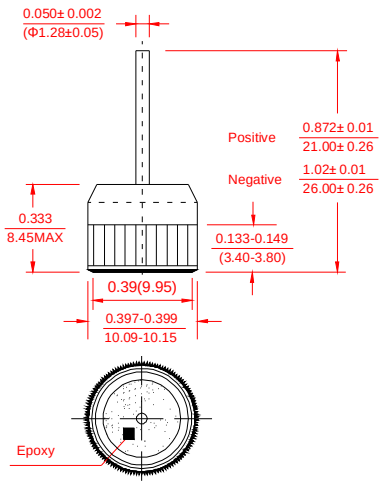
AVALANCHE VOLTAGE	**37 to 41 Volts**
CURRENT	**40 Amperes**

Technical Specifecation:

Features:

- High power capability
- Economical
- Avalanche Voltage: 37V to 41V

LC-1



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: Copper case
- Epoxy: UL94-0 rate flame ratardant
- Polarity: As marked of case bottom
- Structural: With cell
- Technology cell vacuum soldered
- Lead: Plated slug, solderable per MIL-STD-202E Method 208C
- Mounting: Press Fit
- Weight: 0.23ounce, 6.58 Grams

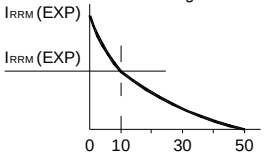
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

Electrical Characteristics @ 25℃	SYMBOLS	MIN	NOMINAL	MAX	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RRM} V_{DC}		28 28 28		Volts
Average Rectified Forward Current (Tc=125℃)	Io		40		Amps
Repetitive Peak Reverse Surge Current Tc=10msec Dury Cycle＜1%	I_{RSM}		40		Amps
Breakdown Voltage (Vbr@ir=100mA, Tc=25℃) Ir=90Amps, Tc=150℃, PW=80usec	Vbr1 Vbr2	37	39	41 54	Volts Volts
Forward Voltage Drop @If=100Amps＜300usec	V_F		1.05	1.08	Volts
Peak Forward Surge Current	I_{FSM}		600		Amps
Reverse Leakage (V_R=17Vdc) T_A=25℃	I_R		1.0	2.0	uAmps
Operating and Storage Junction Temperature Range	T_J ,T_{STG}		-65 to +175		℃

Notes: 1. Enough heatsink must be considered in application.

Fig.1



Surge current characteristics