



PRESS FIT AVALANCHE AUTOMOTIVE RECTIFIER (LUCAS)

LPR40L

AVALANCHE VOLTAGE 20 to 24 Volts
CURRENT 40 Amperes

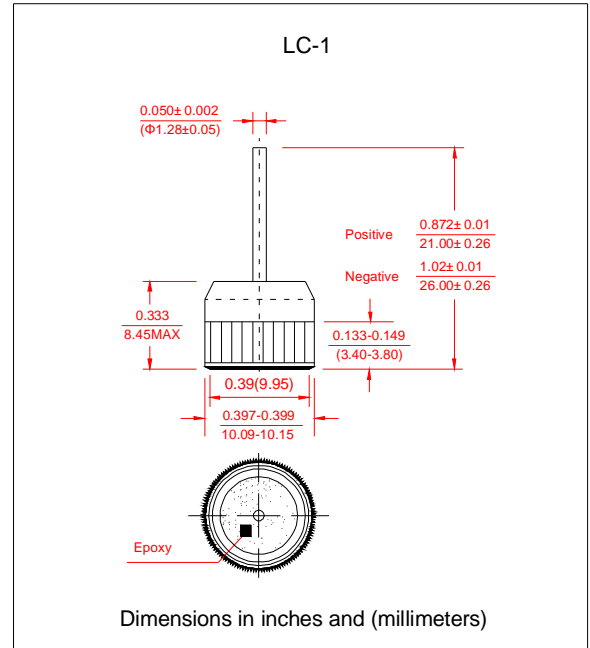
Technical Specification:

Features:

- High power capability
- Economical
- Avalanche Voltage: 20V to 24V

MECHANICAL DATA

- Case: Copper case
- Epoxy: UL94-0 rate flame retardant
- 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°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

Electrical Characteristics @ 25°C	SYMBOLS	MIN	NOMINAL	MAX	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}		17		Volts
Working Peak Reverse Voltage	V _{RRM}		17		
DC Blocking Voltage	V _{DC}		17		
Average Rectified Forward Current (T _c =125°C)	I _o		40		Amps
Repetitive Peak Reverse Surge Current T _c =10msec Dury Cycle<1%	I _{RSM}		40		Amps
Breakdown Voltage (V _{br} @I _r =100mA, T _c =25°C)	V _{br1}	20	22	24	Volts
I _r =90Amps, T _c =150°C, PW=80uSec	V _{br2}			32	Volts
Forward Voltage Drop @I _f =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°C	I _R		1.0	2.0	uAmps
Operating and Storage Junction Temperature Range	T _J , T _{STG}		-65 to +175		°C

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

