

## PRESS FIT AVALANCHE AUTOMOTIVE RECTIFIER

**LPRA40L**

AVALANCHE VOLTAGE    20 to 24 Volts  
CURRENT                  40 Amperes

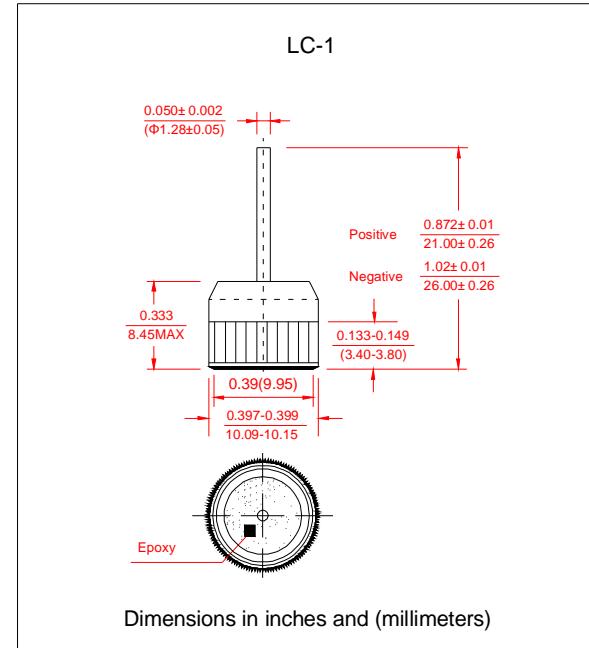
### Technical Specification:

#### 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 <sub>RRM</sub>		17		
Working Peak Reverse Voltage	V <sub>RRM</sub>		17		Volts
DC Blocking Voltage	V <sub>DC</sub>		17		
Average Rectified Forward Current (Tc=125°C)	I <sub>o</sub>		40		Amps
Repetitive Peak Reverse Surge Current Tc=10msec Duty Cycle<1%	I <sub>RSM</sub>		40		Amps
Breakdown Voltage (Vbr@ir=100mA, Tc=25°C) Ir=90Amps, Tc=150°C, PW=80usec	V <sub>br1</sub> V <sub>br2</sub>	20	22	24 32	Volts Volts
Forward Voltage Drop @ If=100Amps<300usec	V <sub>F</sub>		1.05	1.08	Volts
Peak Forward Surge Current	I <sub>FSM</sub>		600		Amps
Reverse Leakage (V <sub>R</sub> =17Vdc) T <sub>A</sub> =25°C	I <sub>R</sub>		1.0	2.0	uAmps
Operating and Storage Junction Temperature Range	T <sub>J</sub> , T <sub>STG</sub>		-65 to +175		°C

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

