



PRESS FIT AVALANCHE AUTOMOTIVE RECTIFIER (BOSCH)

APRB40Z

AVALANCHE VOLTAGE 24 to 32 Volts

CURRENT 40 Amperes

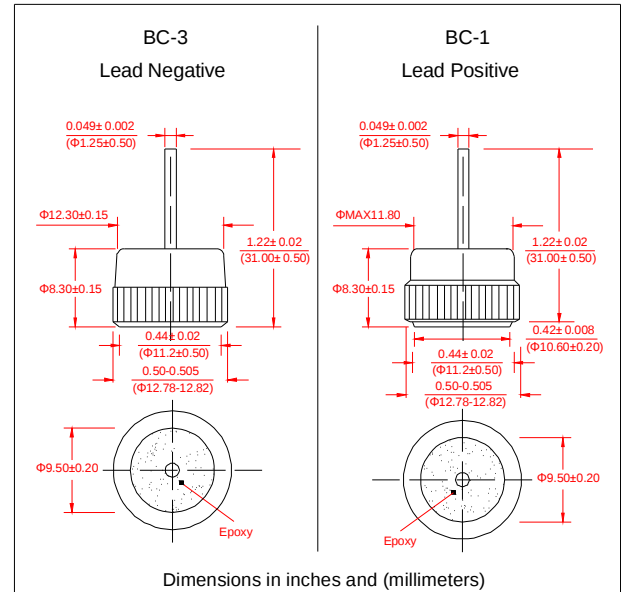
Technical Specifecation:

Features:

- High power capability
- Economical
- Avalanche Voltage: 24V to 32V
- Glass passivated chip

MECHANICAL DATA

- Case: Copper case
- Epoxy: UL94-0 rate flame ratardant
- Polarity: As marked of case bottom
- Technology vacuum soldered
- Lead: Plated slug, solderable per MIL-STD-202E Method 208C
- Weight: 0.28ounce, 7.86 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}		20		Volts
Working Peak Reverse Voltage	V_{RRM}		20		
DC Blocking Voltage	V_{DC}		20		
Average Rectified Forward Current ($T_c=125^\circ\text{C}$)	I_o		40		Amps
Repetitive Peak Reverse Surge Current $T_c=10\text{msec Dury Cycle}<1\%$	I_{RSM}		40		Amps
Breakdown Voltage ($V_{br}@I_r=100\text{mA}$, $T_c=25^\circ\text{C}$)	V_{br1}	24	25-27	32	Volts
$I_r=90\text{Amps}$, $T_c=150^\circ\text{C}$, $PW=80\text{uSec}$	V_{br2}			40	Volts
Forward Voltage Drop @ $I_f=100\text{Amps}<300\text{uSec}$	V_F		1.05	1.08	Volts
Peak Forward Surge Current	I_{FSM}		500		Amps
Reverse Leakage ($V_R=17\text{Vdc}$) $T_A=25^\circ\text{C}$	I_R		1.0	2.0	μAmps
Operating and Storage Junction Temperature Range	T_J, T_{STG}		-65 to +175		$^\circ\text{C}$

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

