



BLOCK TYPE AVALANCHE AUTOMOTIVE RECTIFIER

BA50M

AVALANCHE VOLTAGE 37 to 41 Volts

CURRENT 50 Amperes

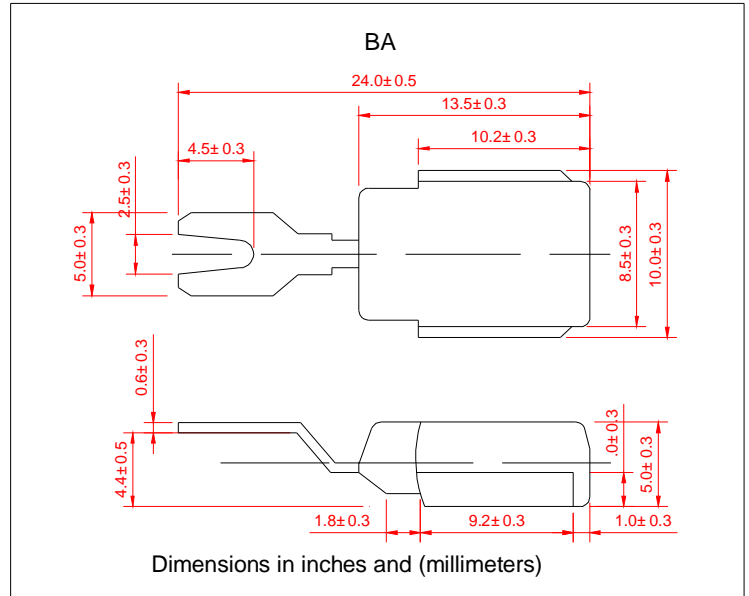
Technical Specifecation:

Features:

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

MECHANICAL DATA

- Copper cup with transfer molded plastic
- Epoxy: UL94-0 rate flame ratardant
- Polarity: BA50M-P lead-P
BA50M-N lead-N
- Technology vacuum soldered
- Lead: Plated slug, solderable per MIL-STD-202E Method 208C
- Weight: 0.094 ounce 2.65 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%

		BA50M-P/BA50M-N			
Electrical Characteristics @ 25°C	SYMBOLS	MIN	NOMINAL	MAX	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	28			Volts
Working Peak Reverse Voltage	V _{RRM}	28			
DC Blocking Voltage	V _{DC}	28			
Average Rectified Forward Current (T _c =125°C)	I _o	50			Amps
Repetitive Peak Reverse Surge Current T _c =10msec Dury Cycle<1%	I _{RSM}	50			Amps
Breakdown Voltage (V _{br} @I _r =100mA, T _c =25°C) I _r =90Amps, T _c =150°C, P _W =80usec	V _{br1}	37	39	41	Volts
	V _{br2}			54	Volts
Forward Voltage Drop @I _f =100Amps<300usec	V _F	1.05			Volts
Peak Forward Surge Current	I _{FSM}	600			Amps
Reverse Leakage (V _R =17Vdc) T _A =25°C	I _R	1.0			uAmps
Operating and Storage Junction Temperature Range	T _J ,T _{STG}	-65 to +175			°C

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

