



# BLOCK TYPE AVALANCHE AUTOMOTIVE RECTIFIER

**BA30M**

**AVALANCHE VOLTAGE 37 to 41 Volts**

**CURRENT 30 Amperes**

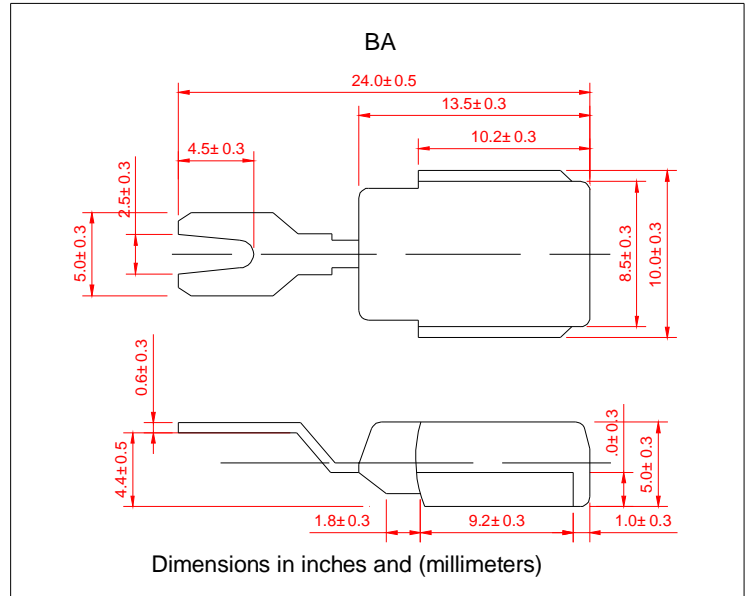
**Technical Specifecation:**

**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: BA30M-P lead-P  
BA30M-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%

		BA30M-P/BA30M-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 ( $T_c=125^\circ C$ )	$I_o$		30		Amps
Repetitive Peak Reverse Surge Current $T_c=10msec$ Dury Cycle<1%	$I_{RSM}$		30		Amps
Breakdown Voltage ( $V_{br}@I_r=100mA, T_c=25^\circ C$ )	$V_{br1}$	37	39	41	Volts
$I_r=90Amps, T_c=150^\circ C, PW=80u\text{sec}$	$V_{br2}$			54	Volts
Forward Voltage Drop @ $I_f=100Amps < 300u\text{sec}$	$V_f$		1.05	1.10	Volts
Peak Forward Surge Current	$I_{FSM}$		400		Amps
Reverse Leakage ( $V_R=17Vdc, T_A=25^\circ C$ )	$I_R$		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.

