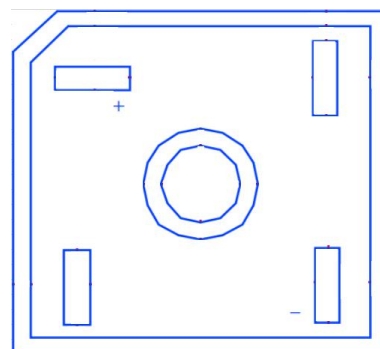


FEATURES

- Plastic package has UL flammability classification 94V-0
- Integrally molded heatsink provides very low thermal resistance for maximum heat dissipation
- High forward surge capacity
- Glass passivated chip junction
- High isolation voltage from case to lugs
- High temperature soldering guaranteed:
260°C/10 seconds
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{RRM}	Repetitive Peak Reverse Voltage		800	V
$I_{F(AV)}$	Average Forward Current	$T_C=75^{\circ}\text{C}$, 180° conduction, half sine wave	35	A
I_{FSM}	Peak Forward Surge Current	8.3ms single half sine wave superimposed on rated load	300	A
I^2t	Rating for Fusing	$t < 8.3\text{ms}$	660	A ² S
T_J	Junction Temperature		-55~150	°C
T_{stg}	Storage Temperature		-55~150	°C

THERMAL CHARACTERISTICS

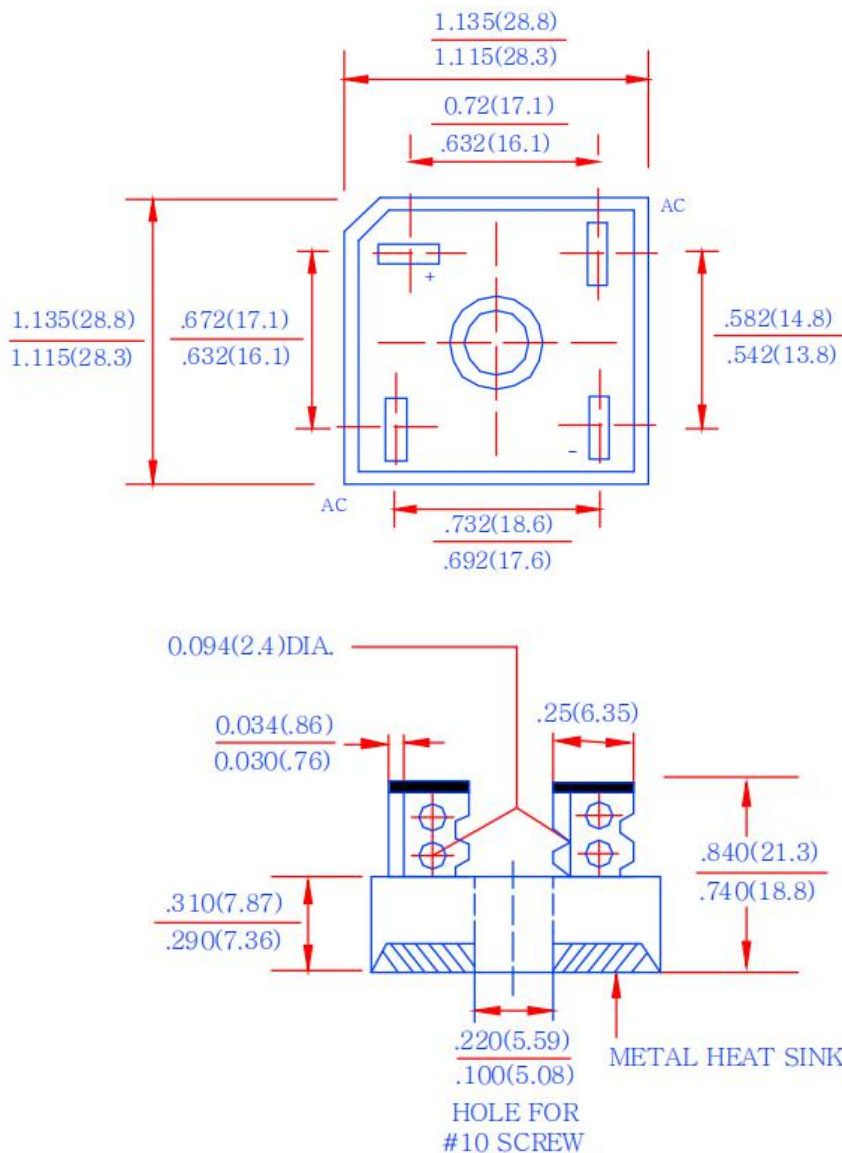
SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.4	/W

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_{FM}	Forward Voltage drop	$T_J = 25^{\circ}\text{C}$, $I_{FM} = 17.5\text{A}$	1.1	V
I_R	Maximum Instantaneous Reverse Current	$V_R = 800\text{V}@T_J = 25^{\circ}\text{C}$ $V_R = 800\text{V}@T_J = 125^{\circ}\text{C}$	5 500	μA

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")



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