

Power Rectifier

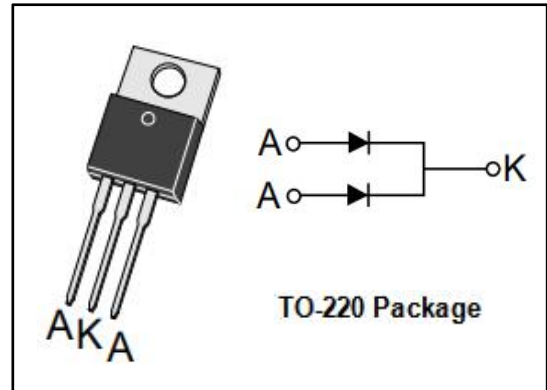
MURH840CT

FEATURES

- Low Forward Voltage
- High Surge Capacity
- High Efficiency

APPLICATIONS

- Power Management
- Instrumentation

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER		VALUE	UNIT
V_{RRM} V_{RWM} V_R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		400	V
$I_{F(AV)}$	Average Rectified Forward Current $T_c=120^{\circ}\text{C}$	Per Leg	4	A
		Total Device	8	A
I_{FM}	Peak Repetitive Forward Current per Diode Leg, $T_c=120^{\circ}\text{C}$		16	A
I_{FSM}	Non-repetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)		100	A
T_J	Junction Temperature		-65~175	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range		-65~175	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{\theta j-c}$	Thermal Resistance, Junction to Case	3.0	$^{\circ}\text{C}/\text{W}$

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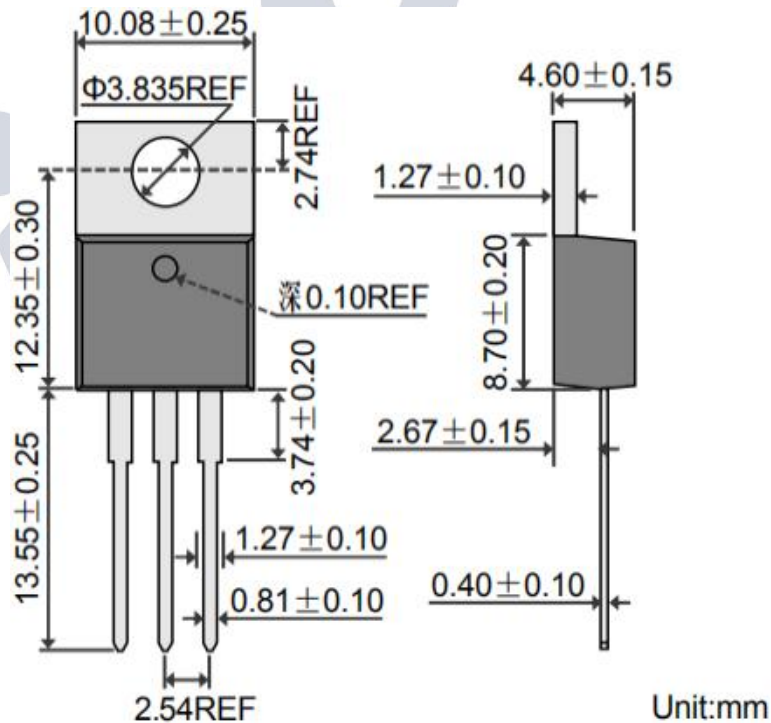
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ELECTRICAL CHARACTERISTICS($T_J = 25^\circ\text{C}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F = 4\text{A}, T_J = 25^\circ\text{C}$	2.2	V
		$I_F = 4\text{A}, T_J = 150^\circ\text{C}$	1.9	
I_R	Maximum Instantaneous Reverse Current	$V_R = V_{RWM}, T_J = 25^\circ\text{C}$	10	μA
		$V_R = V_{RWM}, T_J = 150^\circ\text{C}$	500	
t_{rr}	Maximum Reverse Recovery Time 	$I_F = 1\text{A}$	30	ns

Pulse Test: Pulse Width=300 μs , Duty Cycles $\leq 2\%$

PACKAGE OUTLINE (UNIT: mm):



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