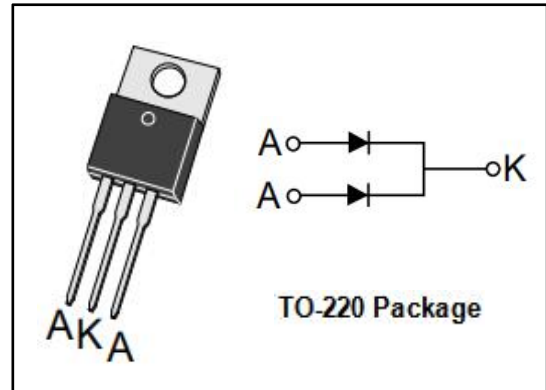


**Power Rectifier**
**MURH860CT**
**FEATURES**

- Low Forward Voltage
- High Surge Capacity
- High Efficiency

**APPLICATIONS**

- Power Management
- Instrumentation


**ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
I <sub>F(AV)</sub>	Average Rectified Forward Current T <sub>c</sub> =120°C	Per Leg	4 A
		Total Device	8 A
I <sub>FM</sub>	Peak Repetitive Forward Current per Diode Leg, T <sub>c</sub> =120°C	16	A
I <sub>FSM</sub>	Non-repetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	100	A
T <sub>J</sub>	Junction Temperature	-55~175	°C
T <sub>stg</sub>	Storage Temperature Range	-55~175	°C

**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R <sub>θj-c</sub>	Thermal Resistance, Junction to Case	3.0	°C/W

## Power Rectifier

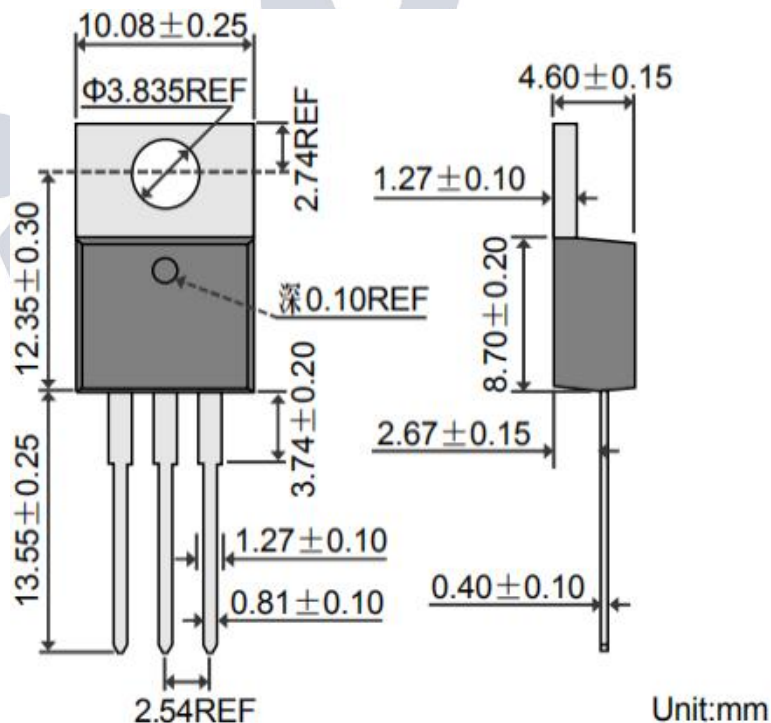
## MURH860CT

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
$V_F$	Maximum Instantaneous Forward Voltage	$I_F = 4\text{A}, T_J = 25^\circ\text{C}$	2.8	V
		$I_F = 4\text{A}, T_J = 150^\circ\text{C}$	2.5	
$I_R$	Maximum Instantaneous Reverse Current	$V_R = V_{RWM}, T_J = 25^\circ\text{C}$	10	$\mu\text{A}$
		$V_R = V_{RWM}, T_J = 150^\circ\text{C}$	500	
$t_{rr}$	Maximum Reverse Recovery Time	$I_F = 1\text{A}$	40	ns

 Pulse Test: Pulse Width=300 $\mu\text{s}$ , Duty Cycles $\leq 2\%$ 

## PACKAGE OUTLINE (UNIT: mm):



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