

Ultrafast Rectifier

MUR860CT

FEATURES

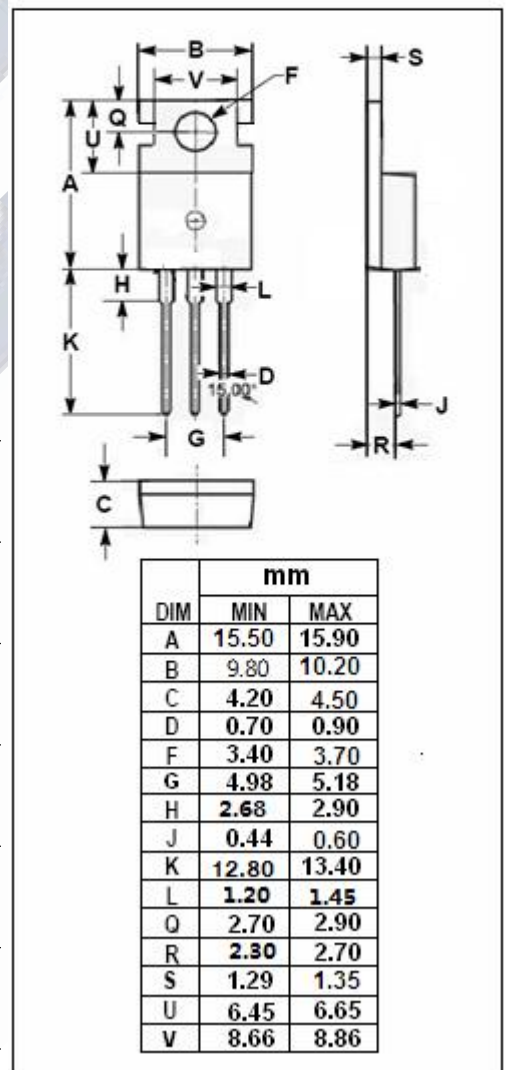
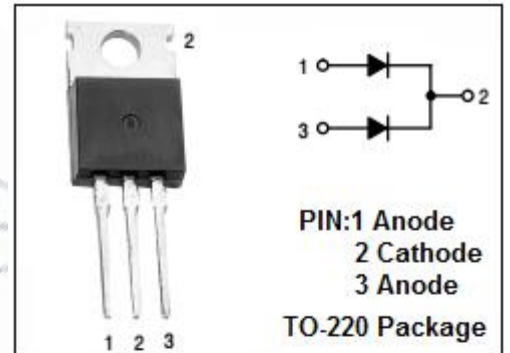
- Ultrafast 50 nanosecond recovery time
- Popular TO-220 package
- Avalanche energy rated
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- The MUR860CT is designed for use in switching power Supplies, inverters and as free wheeling diodes.

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	600	V
$I_{F(AV)}$	Average Rectified Forward Current	8	A
I_{FSM}	Nonrepetitive Peak Surge Current	100	A
T_J	Junction Temperature	-65~175	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-65~175	$^{\circ}\text{C}$



Fast Recovery Rectifier

MUR860CT

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$) (Pulse Test: Pulse Width=300 μ s,Duty Cycle $\leq$ 2%)

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_R	Maximum Instantaneous Reverse Current	$V_R=V_{RWM}; T_J=100^{\circ}\text{C}$ $V_R=V_{RWM}$	800 10	μ A
t_{rr}	Maximum Reverse Recovery Time	$I_F=0.5\text{A}; I_R=1\text{A}; I_{rr}=0.25\text{A}$	50	ns