

Ultrafast Rectifier

MUR840CT

FEATURES

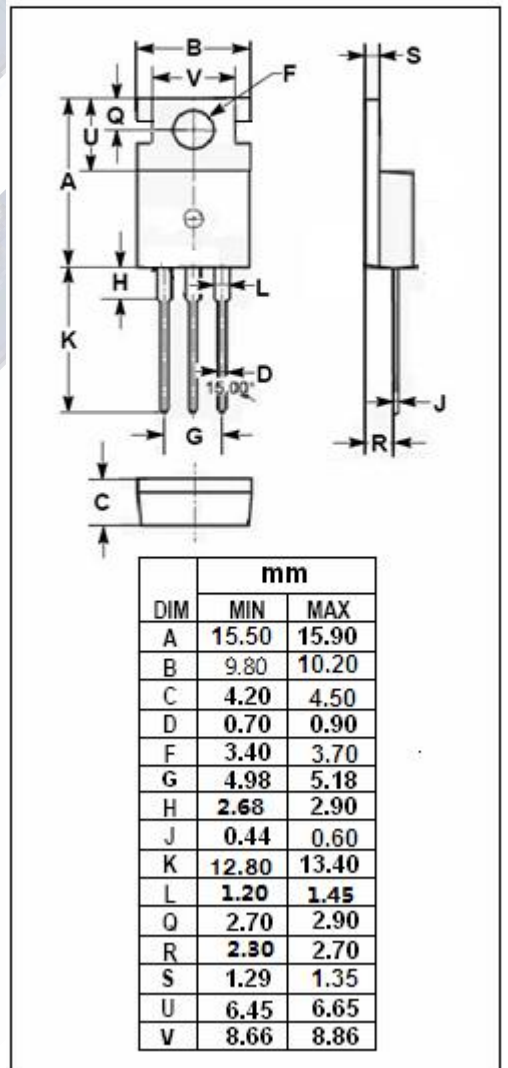
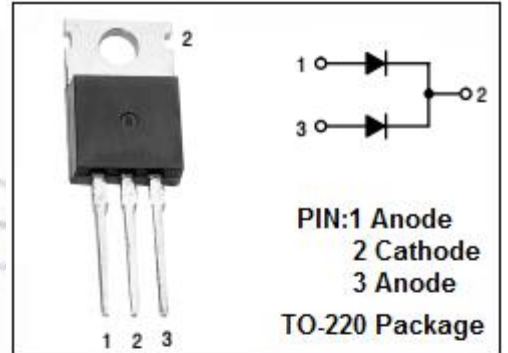
- Popular TO-220 package
- Avalanche energy rated
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- The MUR840CT is designed for use in switching power Supplies, inverters and as free wheeling diodes.

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RFWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
I _{F(AV)}	Average Rectified Forward Current	8	A
I _{FSM}	Nonrepetitive Peak Surge Current	100	A
T _J	Junction Temperature	-65~175	°C
T _{stg}	Storage Temperature Range	-65~175	°C



Fast Recovery Rectifier

MUR840CT

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	$I_F=4\text{A}; T_j=25^{\circ}\text{C}$	2.2	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

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