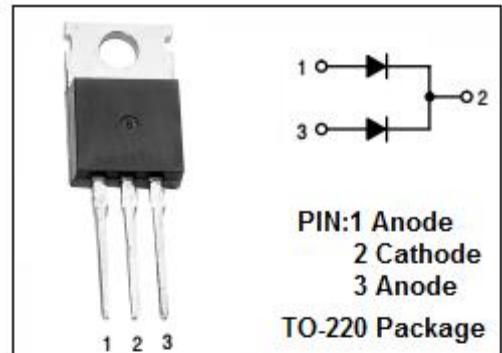


Ultrafast Rectifier

MUR1040CT

FEATURES

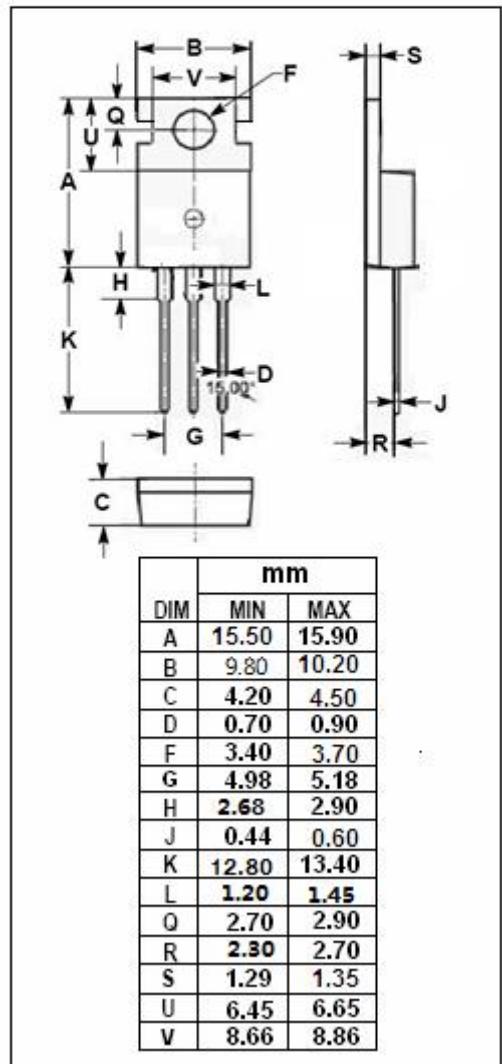
- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

- Dual center tap rectifier suited for switched mode power supplies and high frequency DC to DC converters

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	10	A
I_{FSM}	Nonrepetitive Peak Surge Current	100	A
T_J	Junction Temperature	-55~150	°C
T_{stg}	Storage Temperature Range	-55~150	°C



Fast Recovery Rectifier**MUR1040CT****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance,Junction to Case	2.0	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F=5A; T_j=25^\circ C$	1.3	V
I_R	Maximum Instantaneous Reverse Current	$V_R=V_{RWM}; T_j=125^\circ C$ $V_R=V_{RWM}$	250 10	μ A
t_{rr}	Maximum Reverse Recovery Time	$I_F=0.5A; I_R=1.0A; I_{rr}=0.25A$	50	ns