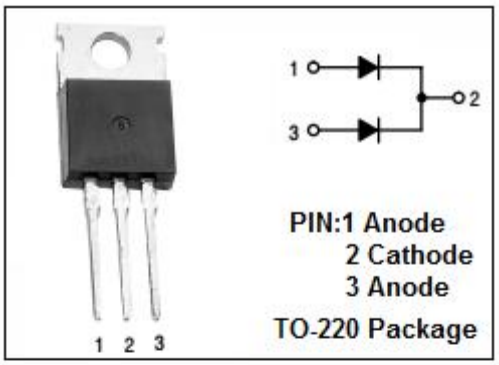
Ultrafast Rectifier

MUR1220CT

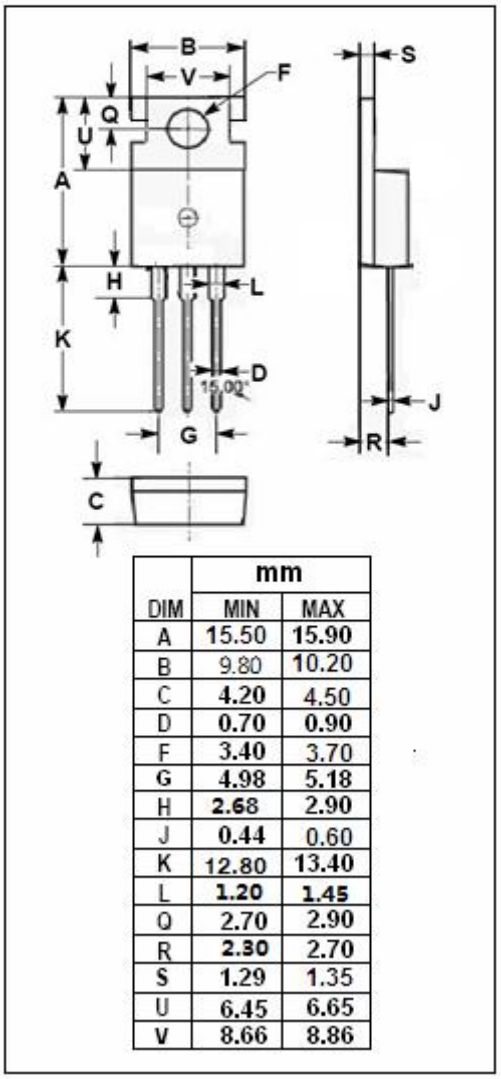


FEATURES

- 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

- Automotive environment
- Plating power supply
- Car audio amplifiers and sound device system



DIM	mm MIN	mm MAX
A	15.50	15.90
B	9.80	10.20
C	4.20	4.50
D	0.70	0.90
F	3.40	3.70
G	4.98	5.18
H	2.68	2.90
J	0.44	0.60
K	12.80	13.40
L	1.20	1.45
Q	2.70	2.90
R	2.30	2.70
S	1.29	1.35
U	6.45	6.65
V	8.66	8.86

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM} V_{RWM} V_R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	V
$I_{F(AV)}$	Average Rectified Forward Current	12	A
I_{FSM}	Nonrepetitive Peak Surge Current	100	A
T_J	Junction Temperature	-55~150	℃
T_{stg}	Storage Temperature Range	-55~150	℃

Fast Recovery Rectifier MUR1220CT

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	2.2	℃/W

ELECTRICAL CHARACTERISTICS(T_a=25℃) (Pulse Test: Pulse Width=300μs,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	I_F=6A ;Tj=25℃	0.98	V
I_R	Maximum Instantaneous Reverse Current	V_R= $V_{RWM;}$Tj=125℃ V_R= V_{RWM}	250 10	μA
t_{rr}	Maximum Reverse Recovery Time	I_F =0.5A;I_R =1.0A;I_{rr} =0.25A	35	ns