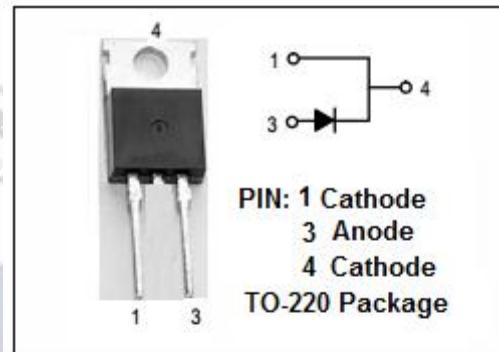


Ultrafast Rectifier

MUR550PF

FEATURES

- Guarding for over voltage protection
- Dual rectifier construction,positive center tap
- Metal of silicon rectifier,majority carrier conduction
- Low forward voltage,high efficiency
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

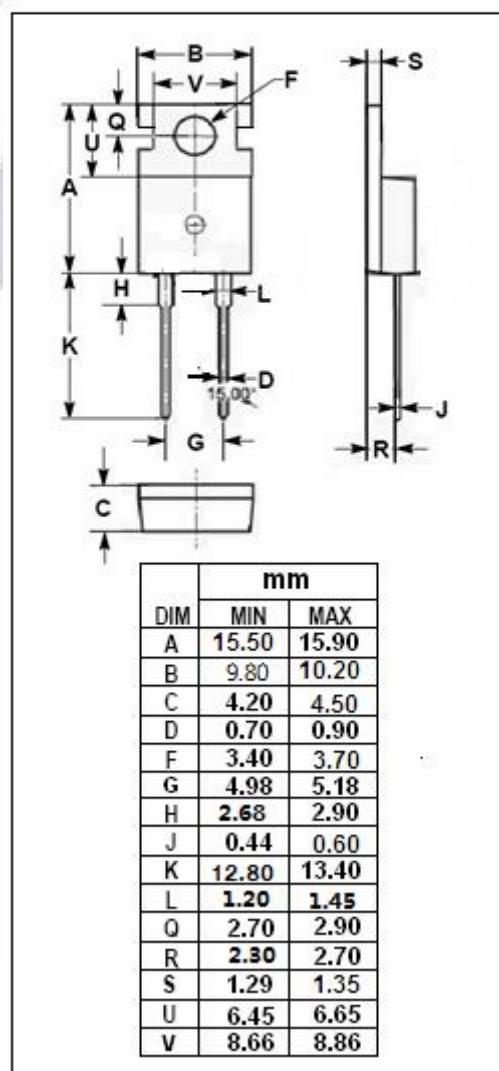


APPLICATIONS

- Switching power supply
- Power switching circuits

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	520	V
$I_{F(AV)}$	Average Rectified Forward Current	5	A
I_{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	100	A
P_D	Maximum power dissipation	44.6	W
T_J	Junction Temperature	-55~175	°C
T_{stg}	Storage Temperature Range	-55~175	°C



Fast Recovery Rectifier**MUR550PF****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance,Junction to Case	2.8	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F = 5A; T_j = 25^\circ C$ $I_F = 5A; T_j = 150^\circ C$	1.15 0.98	V
I_R	Maximum Instantaneous Reverse Current	$V_R = V_{RWM}$ $V_R = V_{RWM}; T_j = 150^\circ C$	5 400	μA
t_{rr}	Maximum Reverse Recovery Time	$I_F = 1A;$	95	ns