Ultrafast Recovery Rectifier

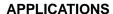
MUR1630CT

FEATURES

- Ultrafast Recovery Time
- Low Forward Voltage
- · Low Leakage Current
- 175℃ Operating Junction Temperature
- High Temperature Glass Passivated Junction

MECHANICAL CHARACTERISTICS

- · Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260 ^oC Max. for 10 Seconds

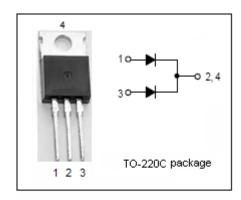


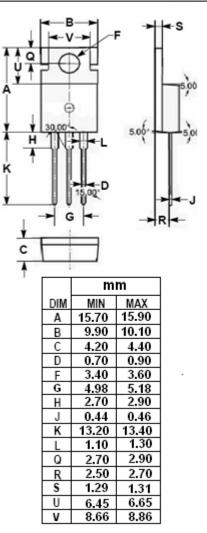
• Designed for use in switching power supplies, inverters and as free wheeling diodes.

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	300	V
I _{F(AV)}	Average Rectified Forward Current Per Leg (Rated V _R) Total Device	8 16	А
I _{FM}	Peak Repetitive Forward Current (Rated V _R , Square Wave,20kHz) Per Diode Leg	16	A
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	100	А
TJ	Junction Temperature	-65~175	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$

1





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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.0	°CMV

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 8A	1.68	V
I _R	Maximum Instantaneous Reverse Current	V _{RRM} = 300V	3	μА
t _{rr}	Maximum Reverse Recovery Time	I _F = 0.5A, I _R = 1A, I _{rr} = 0.25A	60	ns

2