

Ultrafast Rectifier

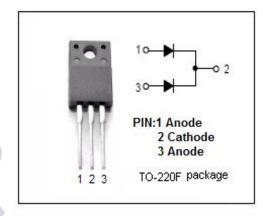
MURF2040CT

FEATURES

- · Ultra-Fast Switching
- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- · Switching power supply
- Power switching circuits

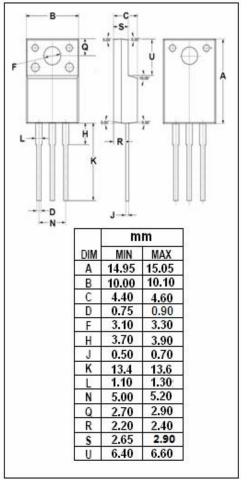


ABSOLU1	TE MAXIMUM	RATINGS(T _a =25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
I _{F(AV)}	Average Rectified Forward Current Per Leg Total device	10 20	А
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	120	А
TJ	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	5.0	°C/W



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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 10A ;T _j =25°C	1.26	V
I _R	Maximum Instantaneous Reverse Current	$V_{R}=V_{RWM}; T_{j}=25 ^{\circ}C$ $V_{R}=V_{RWM}; T_{j}=125 ^{\circ}C$	10 100	μА
t _{rr}	Maximum Reverse Recovery Time	IF =0.5A;	35	ns



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