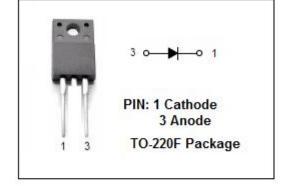


Ultrafast Recovery Rectifier

MUR860F

FEATURES

- · Ultrafast Recovery Time
- Low Forward Voltage
- Low Leakage Current
- 150 °C Operating Junction Temperature
- 100% tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

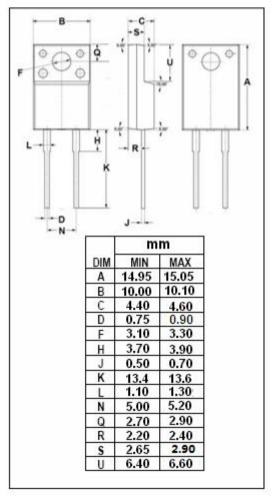


APPLICATIONS

- Switching power supplies
- · Power switching circuits
- General purpose

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R)	8	A
IFRM	Peak Repetitive Forward Current (Rated V _R ,Square Wave,20kHz)	16	Α
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	100	А
TJ	Junction Temperature	-65~175	$^{\circ}$
Tstg	Storage Temperature Range	-65~175	$^{\circ}$





Ultrafast Recovery Rectifier

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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	3.0	°C/W

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	1.5	V
		I _F = 8A ,Tc=150℃	1.2	
I _R	Maximum Instantaneous Reverse Current	V _{RRM} = 600V	100	- μΑ
		V _{RRM} = 600V ,Tc=150℃	500	
t _{rr}	Maximum Reverse Recovery Time	IF =1A,di/dt = 200A/μs	60	- ns
		IF =8A, di/dt = 200A/μs	70	

^{*:}Pulse test ,Pulse width=300us,duty cycle≤2%

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