

Ultrafast Rectifier

MUR6030PT

FEATURES

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

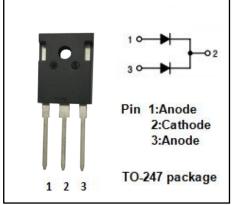


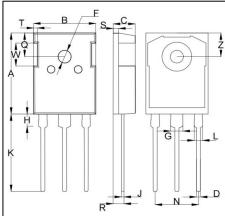
APPLICATIONS

- Uninterruptible power supplies
- · Rectifier in switch mode power supplies
- · Ultrasonic cleaners and welders

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	300	V
I _{F(AV)}	Average Rectified Forward Current	60	А
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	325	А
P _D	Maximum power dissipation	125	W
TJ	Junction Temperature	150	${\mathbb C}$
Tstg	Storage Temperature Range	-40~150	${\mathbb C}$





DIM	mm		
DIIVI	MIN	MAX	
Α	19.80	21.50	
В	15.40	15.90	
C	4.70	5.30	
D	0.90	1.26	
F	3.50	3.90	
G	2.70	3.30	
Н	3.90	4.10	
J	0.500	0.700	
K	19.50	20.50	
L	1.90	2.20	
N	10.80	11.00	
Q	6.00	6.30	
R	2.90	3.30	
S	1.80	2.20	
T	2.15	2.35	
W	4.90	5.10	
Z	6.00	6.30	



Fast Recovery Rectifier

MUR6030PT

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 = 30A ;Tj=25°C I _F = 30A ;Tj=150°C	1.1 0.85	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ; Tj=25 °C V _R =0.8 V _{RWM} ; Tj=25 °C V _R =0.8 V _{RWM} ; Tj=125 °C	200 50 5000	μ А
trr	Maximum Reverse Recovery Time	IF =1.0A;	50	ns



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