

Ultra-fast Rectifier

MURB1620CT

FEATURES

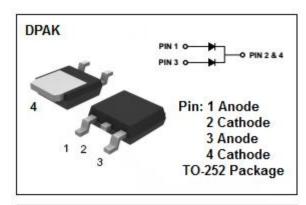
- Guarding for over voltage protection
- Dual rectifier construction, positive center tap
- · Metal of silicon rectifier, majority carrier conduction
- · Low forward voltage, high efficiency
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

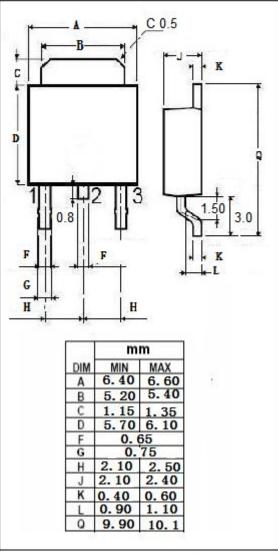
APPLICATIONS

- · Switching power supply
- · Power switching circuits

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current	16	А
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	100	А
P _D	Maximum power dissipation	83.3	W
TJ	Junction Temperature	-55~150	${\mathbb C}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C







Fast Recovery Rectifier

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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.5	°C/W

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

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SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT				
VF	Maximum Instantaneous Forward Voltage	I _F = 8A ;Tj=25 ℃	0.975	V				
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} V _R = V _{RWM} ; Tj=150°C	5 250	μ А				
t _{rr}	Maximum Reverse Recovery Time	I _F =0.5A;I _R =1A;Irr=0.25a	25	ns				



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