

Ultra fast Rectifier

ETL1506-M3

FEATURES

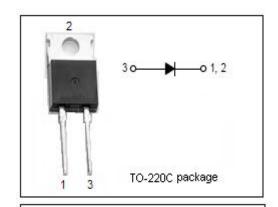
- · With TO-220 packaging
- · Ultrafast recovery times
- · Low leakage current; low losses
- Soft recovery characteristics
- · High reliability systems
- · Low noise switching
- High surge current capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

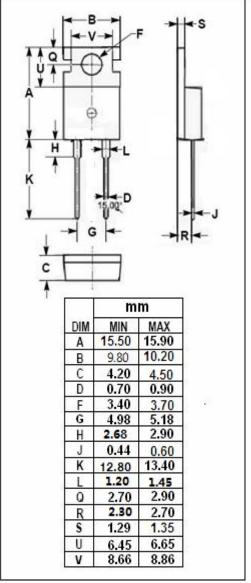
APPLICATIONS

- Switching power supply
- · Power switching circuits
- General purpose
- AC/DC SMPS 70W to 400W

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
VRRM VRWM VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
IF(AV)	Average Rectified Forward Current @Tc=157°C	15	А
IFSM	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions;One shot)	200	A
P _D	Maximum Power Dissipation	100	W
TJ	Junction Temperature	-65~175	${\mathbb C}$
Tstg	Storage Temperature Range	-55~175	$^{\circ}$







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THERMAL CHARACTERISTICS

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

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 =15A;Tj=25℃ I _F =15A:Tj=150℃	1.07 0.91	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ;Tj=25°C V _R = V _{RWM} ;Tj=150°C	15 100	μА
t _{rr}	Maximum Reverse Recovery Time	I _F =1A;dI _F /dt=100A/ μ s;V _R =30V	110	ns

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