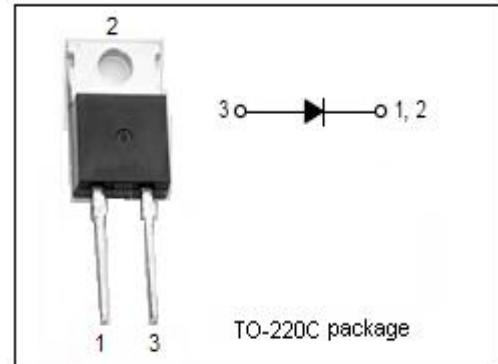


Ultra fast Rectifier

ETL1506-M3

FEATURES

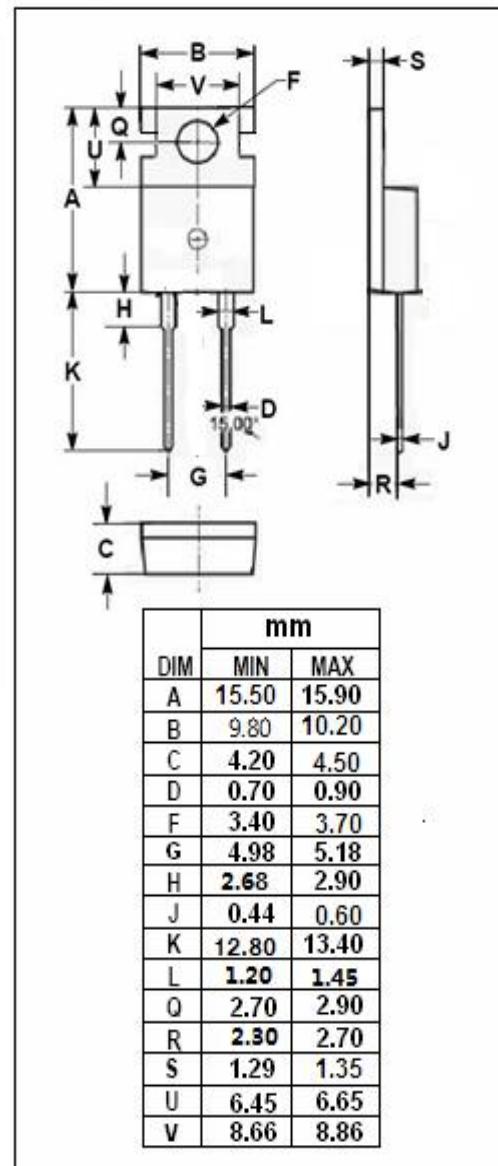
- With TO-220 packaging
- Ultrafast recovery times
- Low leakage current;low losses
- Soft recovery characteristics
- High reliability systems
- Low noise switching
- High surge current capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

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 $\text{@} T_c=157^\circ\text{C}$	15	A
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
T _J	Junction Temperature	-65~175	°C
T _{stg}	Storage Temperature Range	-55~175	°C



Ultra fast Rectifier**ETL1506-M3****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.4	°C/W

ELECTRICAL CHARACTERISTICS($T_a=25^\circ\text{C}$) (Pulse Test: Pulse Width=300 μs ,Duty Cycle $\leq 2\%$)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F =15A;T _j =25°C I _F =15A;T _j =150°C	1.07 0.91	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ;T _j =25°C V _R = V _{RWM} ;T _j =150°C	15 100	μA
t _{rr}	Maximum Reverse Recovery Time	I _F =1A; dI _F /dt=100A/ μs ;V _R =30V	110	ns