

Ultrafast Recovery Rectifier

VS-ETL1506-M3

FEATURES

- · Ultrafast recovery time
- · Low forward voltage
- · Low loss and soft recovery
- · Single diode
- High temperature glass passivated junction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

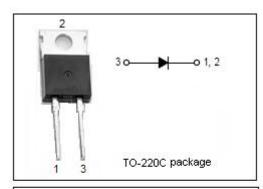


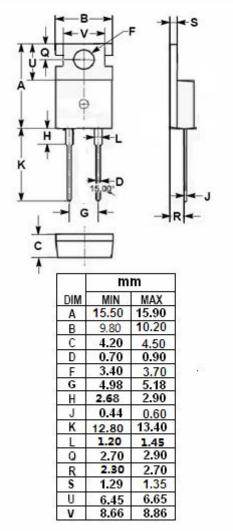
APPLICATIONS

- AC/DC power supplies
- · Laptop and printer AC adaptors
- · Desktop PC, TV and monitor



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 @Tc=157℃	15	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 50Hz)	200	А
P _D	Total Power Dissipation	0.5	W
TJ	Junction Temperature	-65~175	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.3	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 15A	1.07	V
		I _F = 15A;T _C =150℃	0.91	
I _R	Maximum Instantaneous Reverse Current	V _{RRM} = 600V	15	μ Α
		V _{RRM} = 600V;T _C =150°C	100	μ A
t _{rr}	Maximum Reverse Recovery Time	I _F = 1A;V _R =30V;di _F /dt=100A/ μ s	110	ns

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