

Ultra fast Rectifier

20ETF10

FEATURES

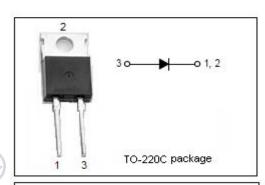
- With TO-220 packaging
- Low forward voltage drop
- · Super high speed switching
- · High reliability by planer design
- · High surge current capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

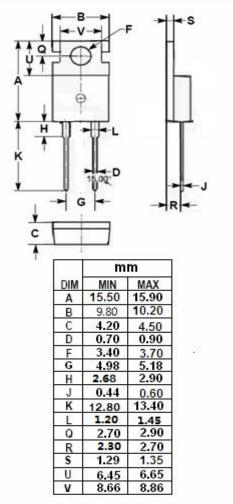
APPLICATIONS

- · Switching power supply
- · Power switching circuits
- · High speed power switching

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM}	Peak Repetitive Reverse Voltage	1000	V
I _{F(AV)}	Average Rectified Forward Current @Tc=97°C;180° condition half sine wave	20	А
I _{FSM}	Non-repetitive Peak Surge Current 10ms sine pulse, rated V _{RRM} applied	300	А
T _J	Junction Temperature	-40~150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-40~150	°C





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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	0.9	°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 =20A	2.4	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ; Tc=25°C V _R = V _{RWM} ; Tc=150°C	0.1 6	mA
t _{rr}	Maximum Reverse Recovery Time	I _F =20A; dI/dt=25A/ μ s	160	ns

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