

Ultra fast Rectifier

20ETF10

FEATURES

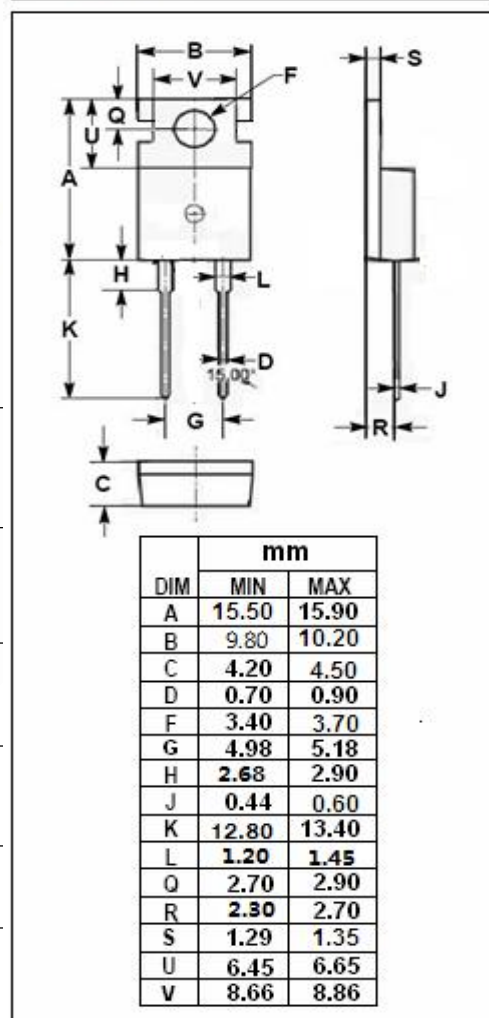
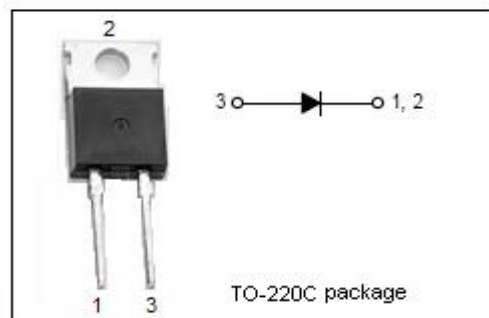
- With TO-220 packaging
- Low forward voltage drop
- Super high speed switching
- High reliability by planer design
- High surge current capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

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

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

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



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.9	$^{\circ}C/W$

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F=20A$ 	2.4	V
I_R	Maximum Instantaneous Reverse Current	$V_R=V_{RWM}; T_c=25^{\circ}C$ $V_R=V_{RWM}; T_c=150^{\circ}C$	0.1 6	mA
t_{rr}	Maximum Reverse Recovery Time	$I_F=20A; di/dt=25A/\mu s$	160	ns