

Ultrafast Rectifier

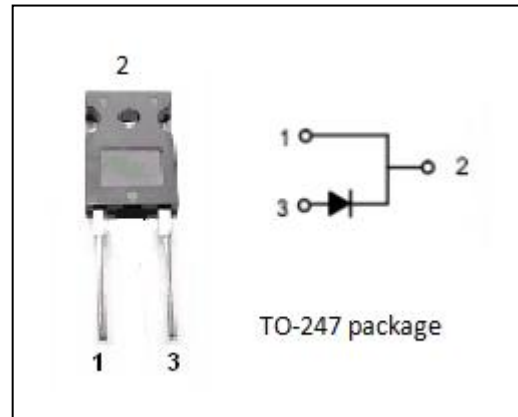
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FEATURES

- Guarding for over voltage protection
- Dual rectifier construction, positive center tap
- Low forward voltage, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- These devices are ideally suited for HF welding, power converters and other applications where switching losses are not significant portion of the total losses.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM} V_{RWM} V_R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
$I_{F(AV)}$	Average Rectified Forward Current	60	A
I_{FSM}	Non-repetitive Peak Surge Current	600	A
T_J	Max. Junction Temperature	175	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~175	$^\circ\text{C}$

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	$I_F=60\text{A}; T_J=25^\circ\text{C}$ $I_F=60\text{A}; T_J=175^\circ\text{C}$	1.25 1.03	V
I_R	Maximum Instantaneous Reverse Current	$V_R=V_R \text{ Rated}; T_J=25^\circ\text{C}$ $V_R=V_R \text{ Rated}; T_J=150^\circ\text{C}$	50 2	μA mA
t_{rr}	Maximum Reverse Recovery Time	$I_F=1\text{A}$	60	ns

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