

Fast Recovery Rectifier

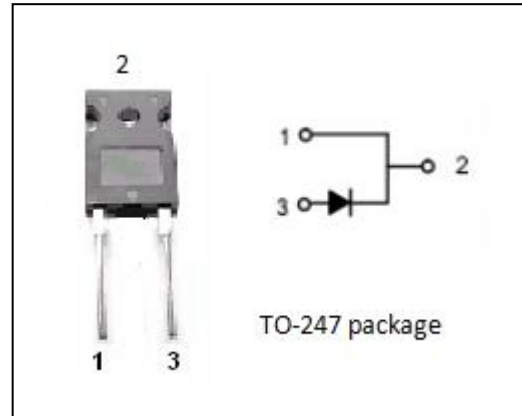
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FEATURES

- High voltage
- 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	600	V
$I_{F(AV)}$	Average Rectified Forward Current	30	A
I_{FSM}	Non-repetitive Peak Surge Current	600	A
T_J	Junction Temperature	-55~150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$

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	$I_F = 30\text{A}$	1.5	V
I_R	Maximum Instantaneous Reverse Current	$V_R = V_{RM}$	25	μA
t_{rr}	Maximum Reverse Recovery Time	$I_F = 0.5\text{A}$; $I_R = 1\text{A}$	150	ns

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