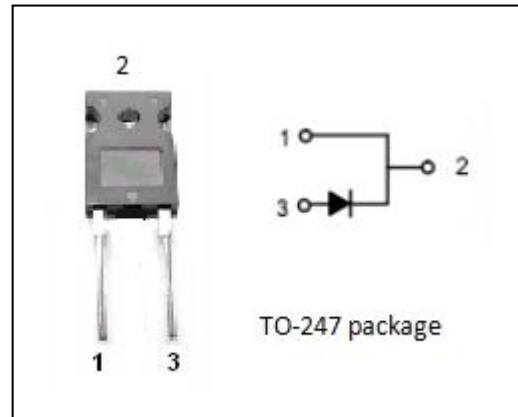


Ultrafast Rectifier
HFA15PB60
FEATURES

- Guarding for over voltage protection
- Very Low IRRM
- Specified at Operating Conditions
- 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 @ $T_c=100^{\circ}\text{C}$	15	A
I_{FSM}	Single pulse forward current Maximum repetitive forward current	150 60	A
T_J	Max.Junction Temperature	-55~150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS(T_a=25°C)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 15A; T _j =25°C I _F = 15A; T _j =125°C I _F = 30A; T _j =25°C	1.7 1.6 2.0	V
I _R	Maximum Instantaneous Reverse Current	V _R =V _R Rated; T _j =25°C V _R =0.8*V _R Rated; T _j =125°C	10 1	μ A mA
t _{rr}	Maximum Reverse Recovery Time	I _F =15A;V _R =30V;dI _F /dt=200A/μ s;	60	ns

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