

# **Ultrafast Rectifier**

## **HFA15TB60**

#### **FEATURES**

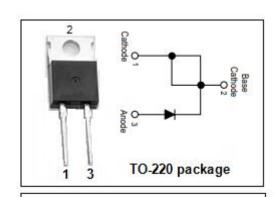
- Ultrafast Recovery
- Ultrasoft Recovery
- Very Low I<sub>RRM</sub>
- Specified at Operating Conditions
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

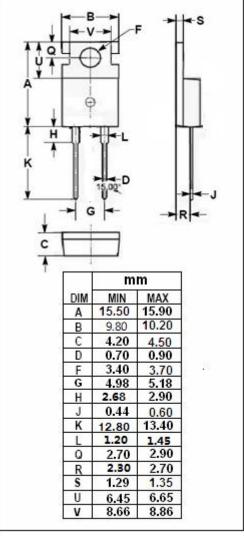


- · Reduced Power Loss in Diode and Switching
- · Rectifier in switch mode supplies



SYMBOL	PARAMETER	VALUE	UNIT
V <sub>R</sub>	Cathode-to-Anode Voltage	600	V
I <sub>F(AV)</sub>	Average Rectified Forward Current(TC=100℃)	15	A
IFSM	Single Pulse Forward Current	150	А
P <sub>D</sub>	Maximum power dissipation	74	W
TJ	Junction Temperature	-55~15 0	$^{\circ}$
Tstg	Storage Temperature Range	-55~15 0	$^{\circ}$







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#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance,Junction to Case		°C/W

#### **ELECTRICAL CHARACTERISTICS(Ta=25℃)** (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>FM</sub>	Maximum Forward Voltage	$I_F$ = 15A ; $T_j$ =25 °C $I_F$ = 30A ; $T_j$ =25 °C $I_F$ = 15A ; $T_j$ =125 °C	1.7 2.0 1.6	V
I <sub>RM</sub>	Maximum Reverse Leakage Current	$\begin{aligned} &\text{V}_{\text{R}}\text{=}\text{V}_{\text{R}}\text{Rated}; &T_{j}\text{=}25^{\circ}\text{C} \\ &\text{V}_{\text{R}}\text{=}\text{0.8V}_{\text{R}}\text{Rated}; &T_{j}\text{=}125^{\circ}\text{C} \end{aligned}$	10 1000	μΑ



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