

Ultrafast Rectifier

HFA30PA60C

FEATURES

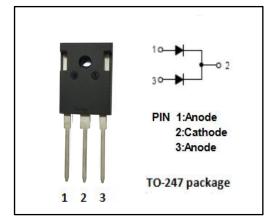
- Ultrafast recovery time
- Very low I_{RRM}
- Popular TO-247 package
- Low forward voltage drop
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

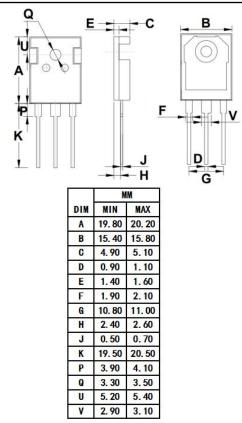
APPLICATIONS

- Switching power supply
- · Power switching circuits
- General purpose

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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 Per Leg Total device	15 30	Α
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	150	А
P _D	Maximum power dissipation	74	W
TJ	Junction Temperature	-55~150	${\mathbb C}$
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.7	°C/W

ELECTRICAL CHARACTERISTICS(T_a=25°C) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F =15A ;Tj=25℃	1.7	V
I _R	Maximum Instantaneous Reverse Current	V_R = 0.8 V_{RWM} ; Tj =125 $^{\circ}$ C V_R = V_{RWM}	1000 10	μА
t _{rr}	Maximum Reverse Recovery Time	IF =0.5A;IR=1.0A, Irr=0.5A	60	ns

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