

HFA30PA60C

FEATURES

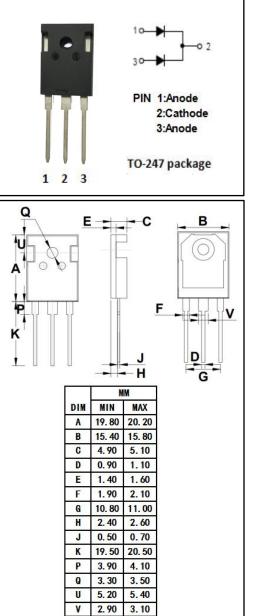
- · Ultrafast recovery time
- Very low I_{RRM}
- Popular TO-247 package
- Low forward voltage drop
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- Power switching circuits
- General purpose

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
Vrrm Vrwm Vr	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	A
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	150	A
PD	Maximum power dissipation	74	W
TJ	Junction Temperature -55~150		°C
T _{stg}	Storage Temperature Range	-55~150	°C





Ultrafast Rectifier

INCHANGE SEMICONDUCTOR

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THERMAL CHARACTERISTICS

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

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

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	I⊧=15A ;Tj=25 ℃	1.7	V
I _R	Maximum Instantaneous Reverse Current	V _R = 0.8V _{RWM;} Tj=125°C V _R = V _{RWM}	1000 10	μA
trr	Maximum Reverse Recovery Time	IF =0.5A;IR=1.0A, Irr=0.5A	60	ns

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