

# HFA30PA60C

## FEATURES

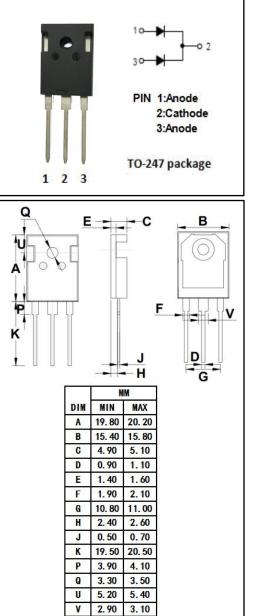
- · Ultrafast recovery time
- Very low I<sub>RRM</sub>
- Popular TO-247 package
- Low forward voltage drop
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### **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 <sub>F(AV)</sub>	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 <sub>stg</sub>	Storage Temperature Range	-55~150	°C





# Ultrafast Rectifier

**INCHANGE SEMICONDUCTOR** 

# HFA30PA60C

#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R <sub>th j-c</sub>	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 <sub>R</sub>	Maximum Instantaneous Reverse Current	V <sub>R</sub> = 0.8V <sub>RWM;</sub> Tj=125°C V <sub>R</sub> = V <sub>RWM</sub>	1000 10	μA
trr	Maximum Reverse Recovery Time	IF =0.5A;IR=1.0A, Irr=0.5A	60	ns

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