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# **RHRG3060**

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TO-247 package

### FEATURES

- With TO-247 packaging
- High performance fast recovery diode
- Low loss and soft recovery
- Low forward voltage drop
- 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
V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
IF(AV)	Average Rectified Forward Current @Tc=120°C	30	A
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	325	A
PD	Max Power Dissipation	125	w
TJ	Junction Temperature	-65~175	°C
T <sub>stg</sub>	Storage Temperature Range	-65~175	°C



### INCHANGE SEMICONDUCTOR

# **Ultra fast Rectifier**

# RHRG3060

## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	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	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	I <sub>F</sub> =30A:Tc=25℃ Tc=150℃	3.1 1.7	V
I <sub>R</sub>	Maximum Instantaneous Reverse Current	V <sub>R</sub> = V <sub>RWM;</sub> Tj=25℃ V <sub>R</sub> = V <sub>RWM;</sub> Tj=150℃	0.25 1.0	mA
trr	Maximum Reverse Recovery Time	IF =30A;diF/dt=200A/ μ s	45	ns

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