



Ultra fast Rectifier

RHRG3060CC



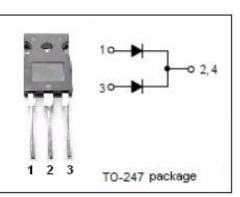
- With TO-247 packaging
- High junction temperature capability
- · Low forward voltage
- High current capability
- Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

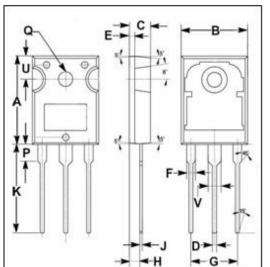
APPLICATIONS

- Switching power supply
- Free-Wheeling diodes
- Reverse battery protection
- Center tap configuration

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNI T		
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	600	V		
IF(AV)	Average Rectified Forward Current @Tc=110°C	30	A		
IFSM	RMS Forward Current	70	A		
IFSM	Nonrepetitive Peak Surge Current (10ms single half sine-wave superimposed on rated load conditions)	325	А		
TJ	Junction Temperature	-65~175	°C		
T _{stg}	Storage Temperature Range	-65~175	°C		





	mm	
DIM	MIN	MAX
Α	19.80	20.20
В	15.40	15.80
С	4.90	5.10
D	0.90	1.10
Ε	1.40	1.60
F	1.90	2.10
G	10.80	11.00
Н	2.40	2.60
J	0.50	0.70
K	19.50	20.50
Ρ	3.90	4.10
Q	3.30	3.50
U	5.20	5.40
٧	2.90	3.10

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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.0	°C/W

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	IF= 30A; Tc=25℃ IF= 30A; Tc=25℃	2.1 1.7	V
IR	Maximum Instantaneous Reverse Current	V _R = rated V _{RRM} ; Tj= 25℃ V _R = rated V _{RRM} ; Tj= 100℃	250 1000	μA
trr	Maximum Reverse Recovery Time	I _F =30A;diF/dt=200A/ μ s	45	ns

NOTICE:

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2

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