

## RURG3060CC

## FEATURES

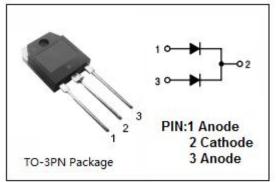
- Ultrafast with soft recovery <55ns
- Operating temperature 175℃
- Reverse voltage up to 600V
- Avalanche energy rated
- Planar construction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

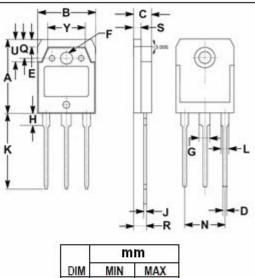
#### APPLICATIONS

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

#### ABSOLUTE MAXIMUM RATINGS (per leg )Tc=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 $T_c \mbox{=} 130^\circ \mbox{C}$	30	А
IFRM	repetitive Peak Surge Current (Square wave,20Hz)	70	А
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current (Halfwave,1 phase 60Hz)	325	А
P <sub>D</sub>	Maximum power dissipation	125	W
TJ	Junction Temperature	-65~175	°C
T <sub>stg</sub>	Storage Temperature Range	-65~175	°C





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DIM	MIN	MAX	
Α	19.60	20.30	
В	15.50	15.70	
C	4.70	4.90	
D	0.90	1.10	
E	1.90	2.10	
F	3.40	3.60	
G	2.90	3.20	
Н	3.20	3.40	
J	0.595	0.605	
K	19.80	20.70	
L	1.90	2.20	
N	10.89	10.91	
Q	4.90	5.10	
R	3.35	3.45	
S	1.995	2.100	
U	5.90	6.20	
Y	9.90	10.10	



## Fast Recovery Rectifier

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## THERMAL CHARACTERISTICS(per leg )

SYMBOL	PARAMETER	МАХ	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case		°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>F*</sub>	Maximum Instantaneous Forward Voltage	IF= 30A ;Tj=25℃ IF= 30A ;Tj=150℃	1.5 1.3	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℃	250 1000	μA
trr	Maximum Reverse Recovery Time	IF =1A;	55	ns
t <sub>rr</sub>	Maximum Reverse Recovery Time	IF =30A;	60	ns

\*:Pulse Test:Pulse width=300us,duty cycle≤2.0%

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