

RURG6020 - RURG6060

60A GLASS PASSIVATED SUPERFAST RECTIFIER



Features

- Planar Die Construction
- Superfast Recovery Time
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- Soft Recovery Characteristics
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

Case: TO-247AC, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-750, Method 2026

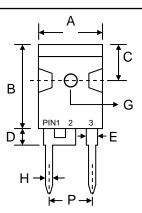
Polarity: See Diagram

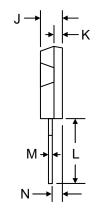
Weight: 5.6 grams (approx.)

Mounting Position: Any

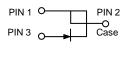
Mounting Torque: 1.2 N.m Max.

Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4





TO-247AC				
Dim	Min	Max		
Α	15.30	15.90		
В	20.30	20.60		
С	5.30	5.98		
D	4.35	4.65		
E	1.80	2.20		
G	3.50 Ø	3.65 Ø		
Н	1.00	1.40		
J	4.85	5.15		
K	1.90	2.10		
L	20.30	21.00		
М	0.50	0.70		
N	2.20	2.60		
Р	10.70	11.10		
All Dimensions in mm				



Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

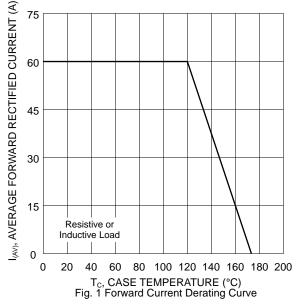
Characteristic	Symbol	RURG6020	RURG6040	RURG6060	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	200	400	600	V
RMS Reverse Voltage	VR(RMS)	140	280	420	٧
Average Rectified Output Current @T _C = 120°C	lo		60		А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM		600		А
Forward Voltage	VFM	1.1 0.9	1.3 1.1	1.8 1.6	V
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 125^{\circ}C$	lкм		250 500		μΑ
Reverse Recovery Time (Note 1)	trr	35	50	60	nS
Typical Junction Capacitance (Note 2)	Cı	90	50	40	pF
Thermal Resistance Junction to Case	R JC		0.7	•	°C/W
Operating and Storage Temperature Range	ТJ, Tsтg	-65 to +175		°C	

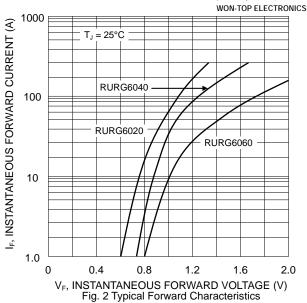
Note: 1. Measured at I_F = 1.0A, V_R = 30V, dI_F/dt = 200A/ μ S. 2. Measured with rated V_R at 1.0 MHz.

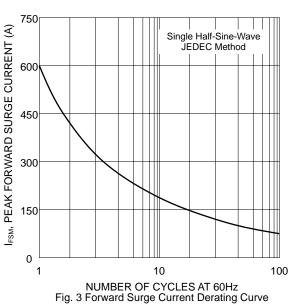
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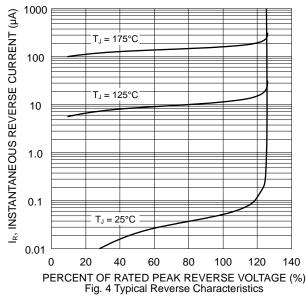
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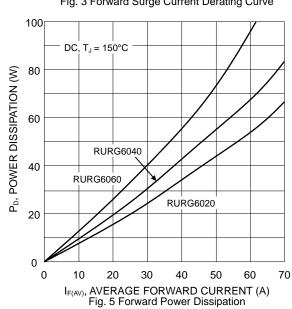


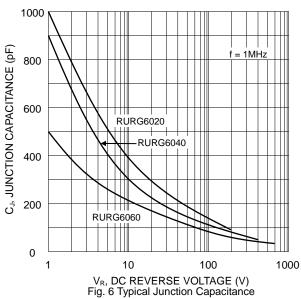








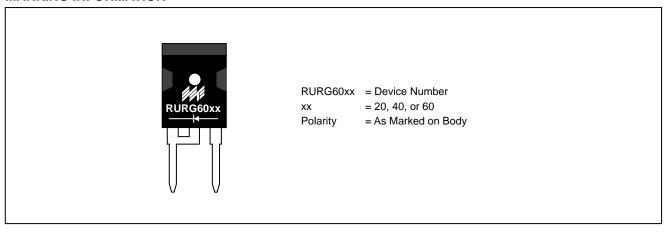




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MARKING INFORMATION



PACKAGING INFORMATION

BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
505 x 46 x 6.5	30	520 x 145 x 95	1,200	540 x 306 x 115	2,400	18.0

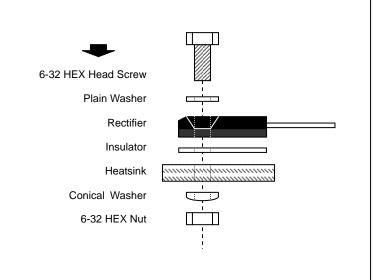
Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT

Recommended isolated mounting when screw is at heatsink potential. 6-32 hardware is used.

A conical washer should be used to apply proper force to the device. Screw should not be tightened with any type of air-forced torque or equipment that may cause high impact on device package.

The interface should apply a layer of thermal grease or a highly conductive thermal pad for better heat dissipation.





ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
RURG6020	TO-247AC	30 Units/Tube
RURG6040	TO-247AC	30 Units/Tube
RURG6060	TO-247AC	30 Units/Tube

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, RURG6020-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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