

## FEATURES

- | The Plastic Package Carries Underwriters Laboratory  
Flammability Classification 94V-0

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- | Guardring For Overvoltage Protection

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- | Low Reverse Leakage

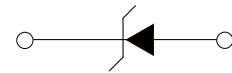
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- | High Forward Surge Current Capability

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R-6/P-600



Schematic Symbol

## APPLICATIONS

- | Case : Molded Plastic Body

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- | Polarity : Polarity Symbol Marking On Body

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- | Mounting Position : Any

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## APPROVALS

<b>RoHS</b>	Compliance with 2011/65/EU
<b>HF</b>	Compliance with IEC61249-2-21:2003

## MAXIMUM RATINGS (T<sub>A</sub> = 25°C )

Parameter	Symbol	15SQ030	15SQ035	15SQ040	15SQ045	15SQ060	15SQ080	15SQ100	Unit
Marking		15SQ030	15SQ035	15SQ040	15SQ045	15SQ060	15SQ080	15SQ100	
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	35	40	45	60	80	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	24.5	28	31.5	42	56	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	35	40	45	60	80	100	V
Maximum Average Forward Rectified Current at T <sub>L</sub> = 100°C	I <sub>F(AV)</sub>	15.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load	I <sub>FSM</sub>	250.0							A
Maximum Instantaneous Forward Voltage at 15.0A	V <sub>F</sub>		0.55			0.70	0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>A</sub> = 25°C		0.2			0.05			mA
	T <sub>A</sub> = 100°C		20			5			mA
Typical Thermal Resistance	R <sub>θJA</sub>	40.0							°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

# CHARACTERISTIC CURVES

Fig. 1- Derating Curve Output Rectified Current

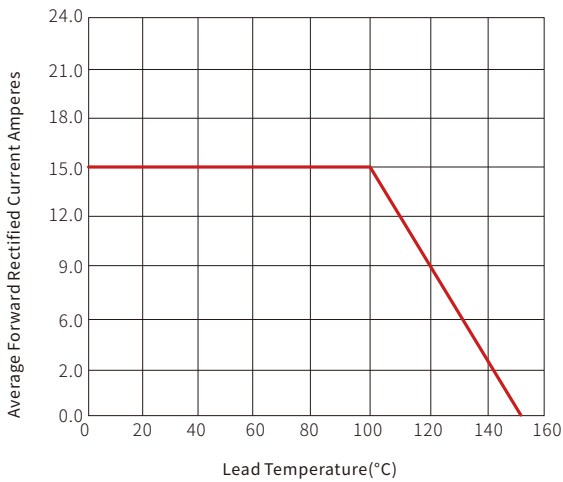


Fig. 2-maximum Non-repetitive Peak Forward Surge Current Perleg

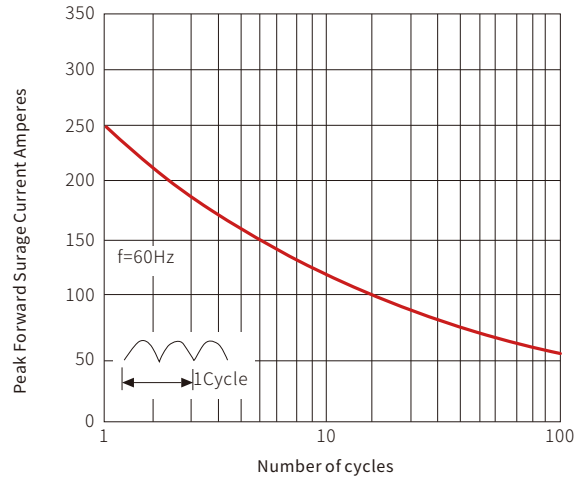


Fig. 3-Typical Forward Voltage Characteristics

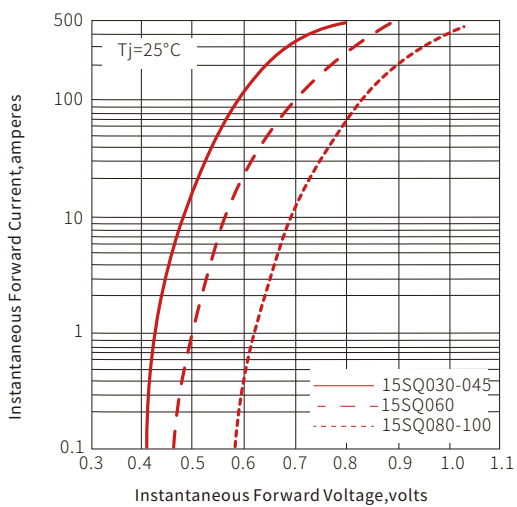
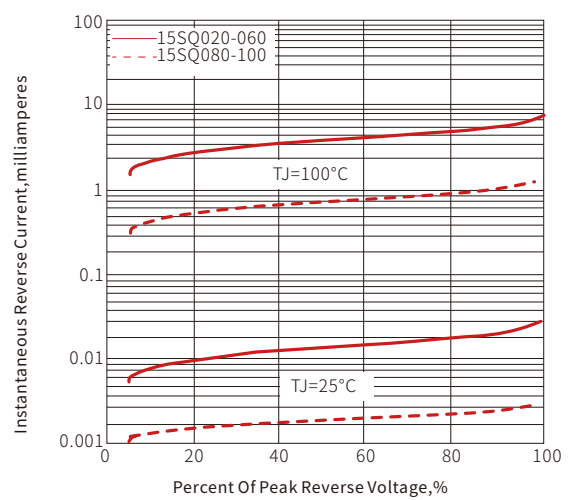
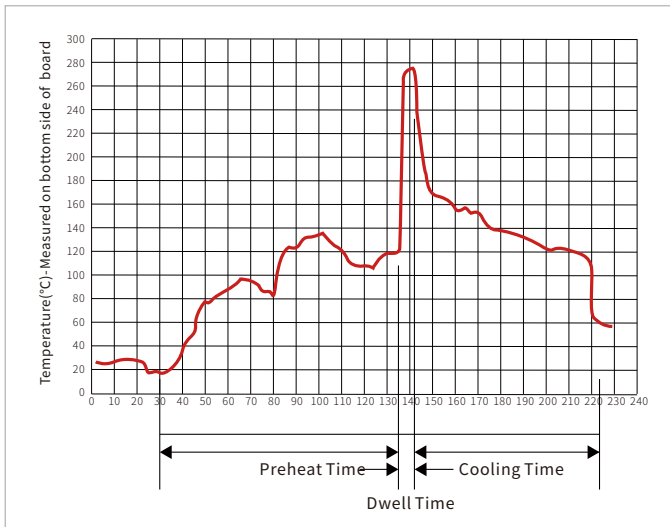


Fig. 4-Typical Reverse Leakage Characteristics

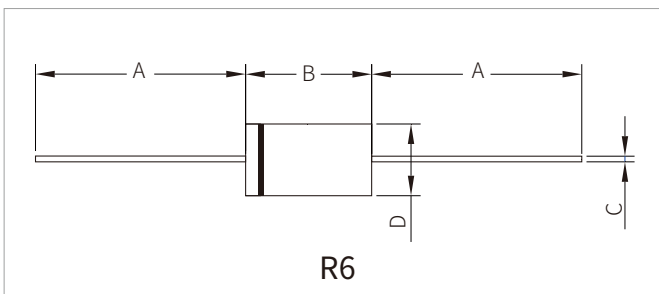


## WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

## P600 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	25.40	-	1.000	-
B	8.60	9.40	0.339	0.370
C	1.20	1.40	0.047	0.055
D	8.60	9.10	0.339	0.358

## ORDERING INFORMATION

Part Number	Component Package	QTY/Box	Q'TY/Carton
15SQ030-15SQ100	R6/P600	500pcs	5000pcs

**Headquarters**

No.3387 Shendu Road  
Pujiang I&E Park  
Minhang Shanghai China  
201000

**Hotline**

400-021-5756

**Web**

<https://www.semiware.com>

**Sales Center**

Tel: 86-21-3463-7458  
Email: [sales18@semiware.com](mailto:sales18@semiware.com)

**Customer Service**

Tel: 86-21-5484-1001  
Email: [sales17@semiware.com](mailto:sales17@semiware.com)

**Technical Support**

Tel: 86-21-3463-7654  
Email: [fae01@semiware.com](mailto:fae01@semiware.com)

**Complaint & Suggestions**

Tel: 86-21-3463-7172  
Ext: 8868  
Email: [cs03@semiware.com](mailto:cs03@semiware.com)

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