

FEATURES

| The Plastic Package Carries Underwriters Laboratory

Flammability Classification 94V-0

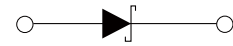
| Guardring For Overvoltage Protection

| Low Reverse Leakage

| High Forward Surge Current Capability



R-6/P-600



Schematic Symbol

APPLICATIONS

| Case : Molded Plastic Body

| Polarity : Polarity Symbol Marking On Body

| Mounting Position : Any

APPROVALS

RoHS Compliance with 2011/65/EU

HF Compliance with IEC61249-2-21:2003

MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)

Parameter		Symbol	20SQ030	20SQ035	20SQ040	20SQ045	20SQ060	20SQ080	20SQ100	Unit
Marking			20SQ030	20SQ035	20SQ040	20SQ045	20SQ060	20SQ080	20SQ100	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	35	40	45	60	80	100	V
Maximum RMS Voltage		V _{RMS}	14	24.5	28	31.5	42	56	70	V
Maximum DC Blocking Voltage		V _{DC}	20	35	40	45	60	80	100	V
Maximum Average Forward Rectified Current at T _L =100°C		I _{F(AV)}	20.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load		I _{FSM}	300.0							A
Maximum Instantaneous Forward Voltage at 20.0A		V _F	0.55				0.70	0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	0.2				0.05			mA
	T _A =100°C		20				5			mA
Typical Thermal Resistance		R _{θJA}	40.0							°C/W
Operating Junction Temperature Range		T _J	-55 to +150							°C
Storage Temperature Range		T _{STG}	-55 to +150							°C

CHARACTERISTIC CURVES

Fig. 1- Derating Curve Output Rectified Current

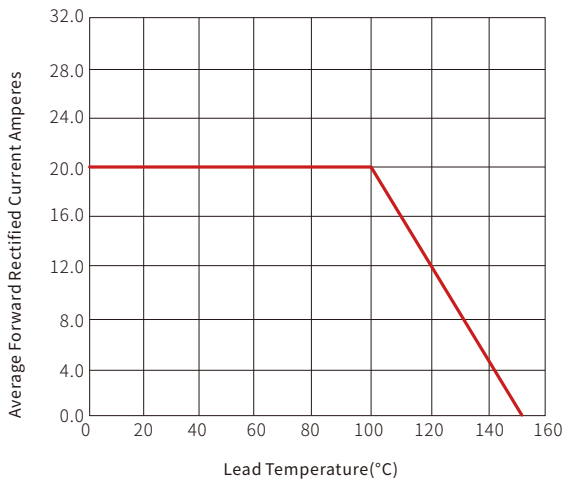


Fig. 2-Maximum Non-repetitive Peak Forward Surge Current Perleg

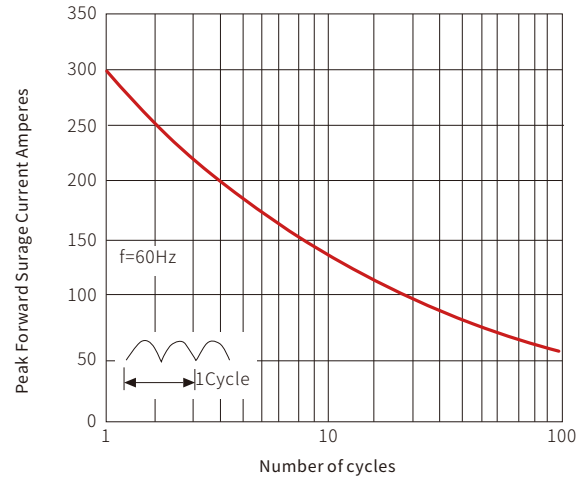


Fig. 3-Typical Forward Voltage Characteristics

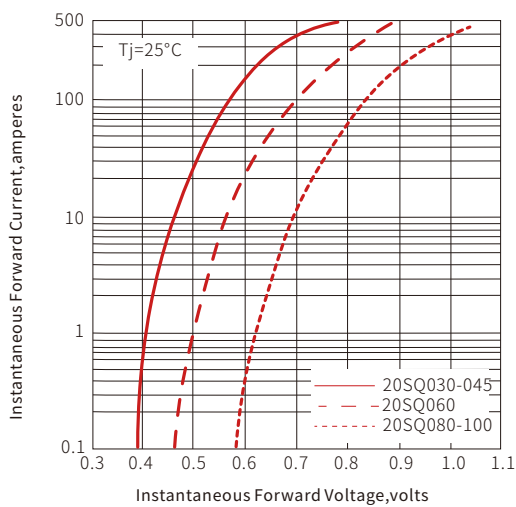
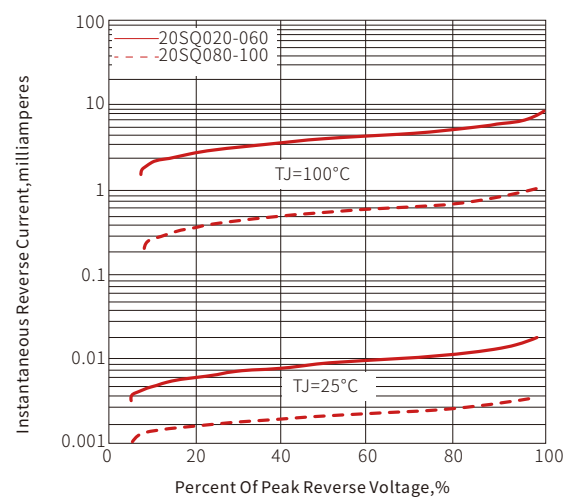
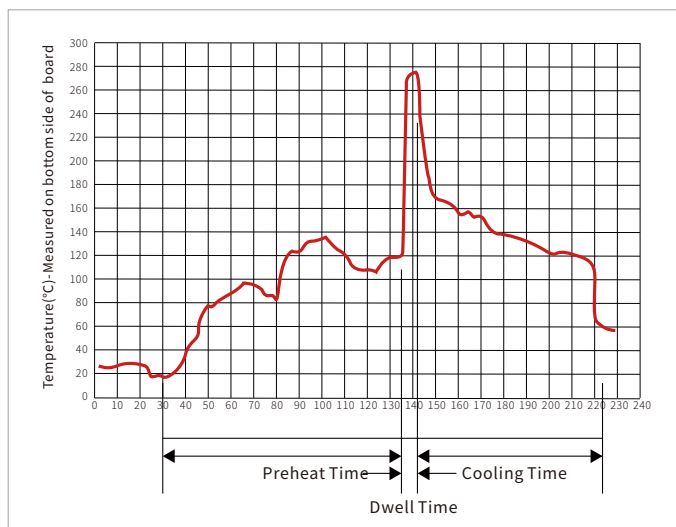


Fig. 4-Typical Reverse Leakage Characteristics

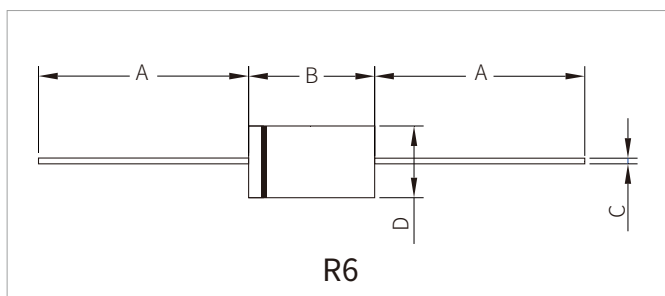


WAVE SOLDERING



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
20SQ030-20SQ100	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

Customer Service

Tel: 86-21-5484-1001
Email: sales17@semiware.com

Technical Support

Tel: 86-21-3463-7654
Email: fae01@semiware.com

Complaint & Suggestions

Tel: 86-21-3463-7172
Ext: 8868
Email: cs03@semiware.com

By QR Code

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