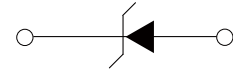


FEATURES

- | 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 $T_L=100^{\circ}\text{C}$	$I_{F(AV)}$	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	$T_A=25^{\circ}\text{C}$		0.2			0.05			mA
	$T_A=100^{\circ}\text{C}$		20			5			mA
Typical Thermal Resistance	$R_{\theta JA}$	40.0							$^{\circ}\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	-55 to +150							$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}\text{C}$

CHARACTERISTIC CURVES

Fig. 1- Derating Curve Output Rectified Current

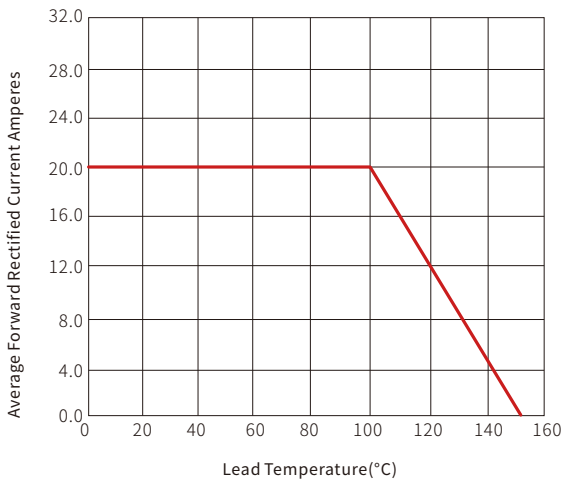


Fig. 2- Maximum Non-repetitive Peak Forward Surge Current Perleg

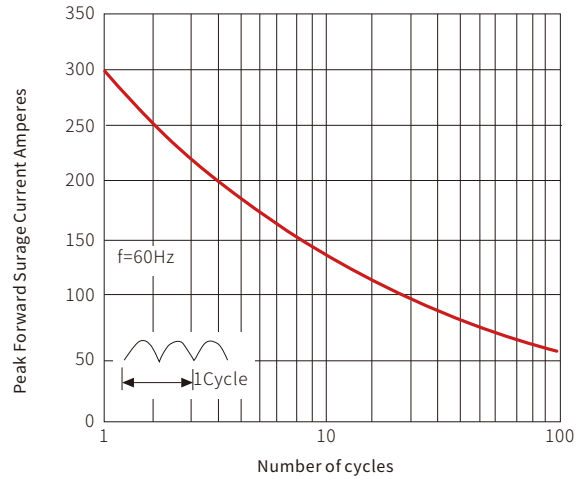


Fig. 3- Typical Forward Voltage Characteristics

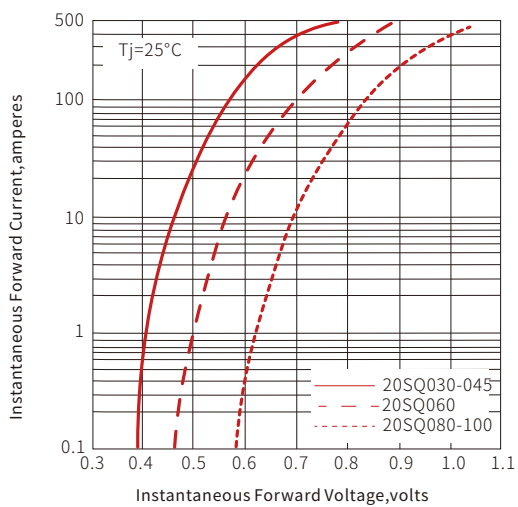
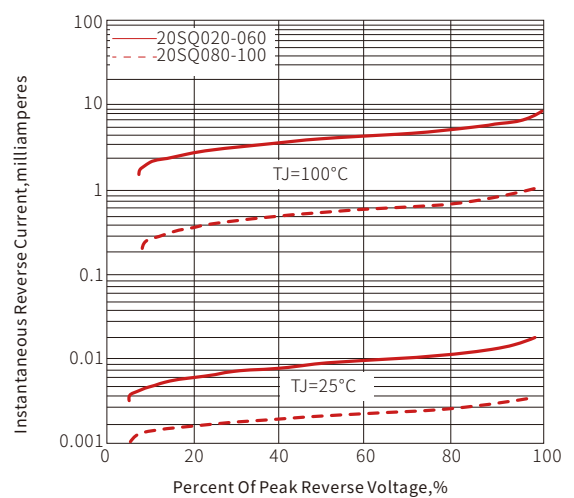
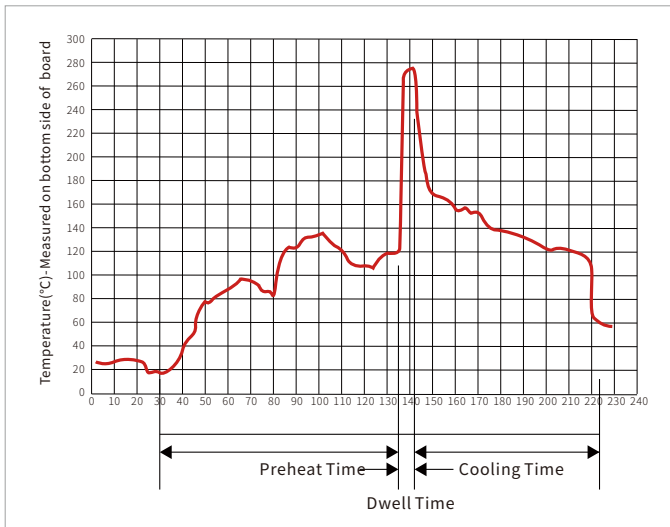


Fig. 4- Typical Reverse Leakage Characteristics

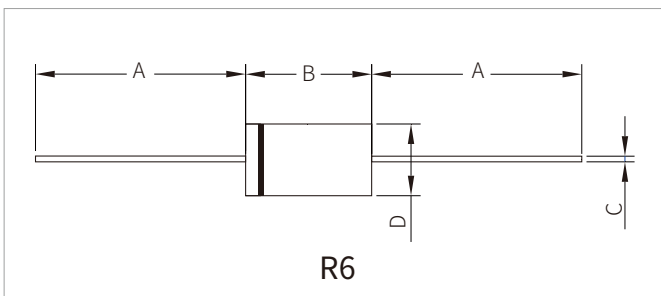


WAVE SOLDERING



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

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By QR Code

Website



Wechat

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