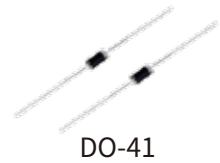


FEATURES

| Guardring For Overvoltage Protection

| Low Reverse Leakage

| High Forward Surge Current Capability



DO-41



Schematic Symbol

MECHANICAL DATA

| Case : Molded Plastic Body

| Polarity Symbol Marking On Body

| Mounting Position : Any

APPROVALS

RoHS Compliance with 2011/65/EU

HF Compliance with IEC61249-2-21:2003

MAXIMUM RATINGS AND CHARACTERISTICS (T_A=25°C)

Parameter		Symbol	1N5817G	1N5818G	1N5819G	Unit
Marking			1N5817	1N5818	1N5819	
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	20	30	40	V
Maximum RMS Voltage		V _{RMS}	14	21	28	
Maximum DC Blocking Voltage		V _{DC}	20	30	40	
Maximum Average Forward Rectified Current At T _L =100°C		I _{F(AV)}	1.0			A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed On Rated Load		I _{FSM}	30.0			
Maximum Instantaneous Forward Voltage at 1.0A		V _F	0.45	0.55	0.60	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	0.2			mA
	T _A =100°C		20			
Typical Thermal Resistance		R _{θJA}	65.0			°C/W
Operating Junction Temperature Range		T _J	-55 to +125			°C
Storage Temperature Range		T _{STG}	-55 to +150			°C

CHARACTERISTIC CURVES

Fig.1 Derating Curve Output Rectified Current

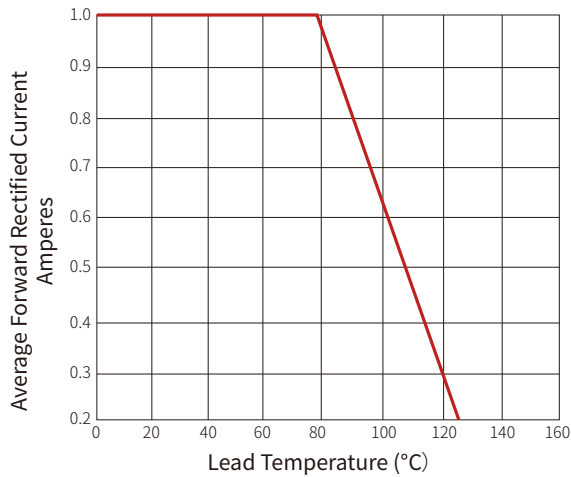


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current Perleg

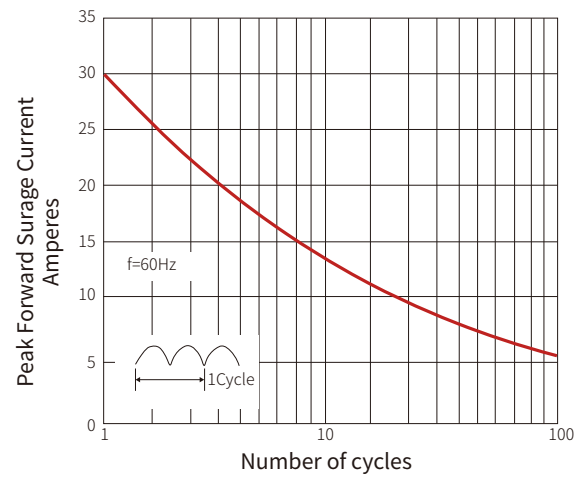


Fig.3 Typical Forward Voltage Characteristics

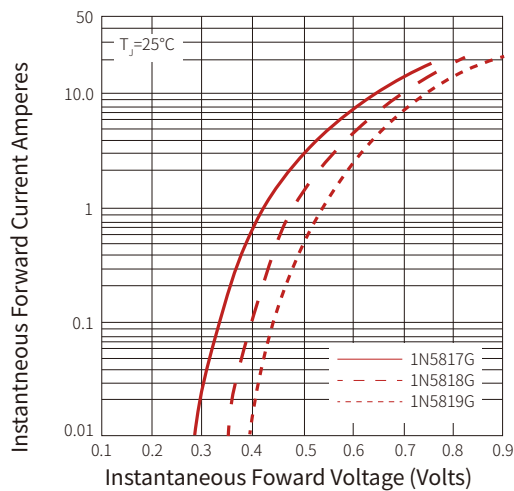
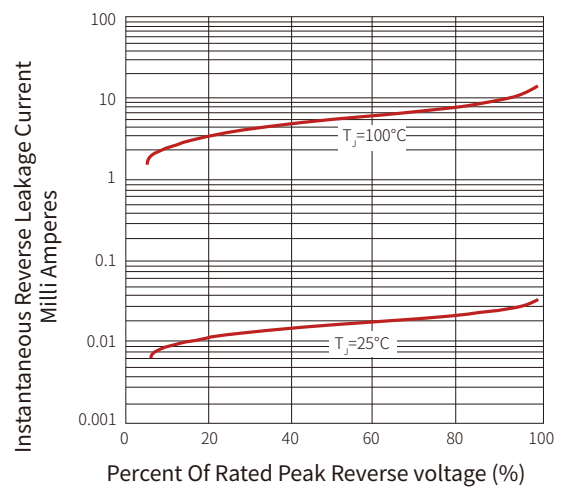
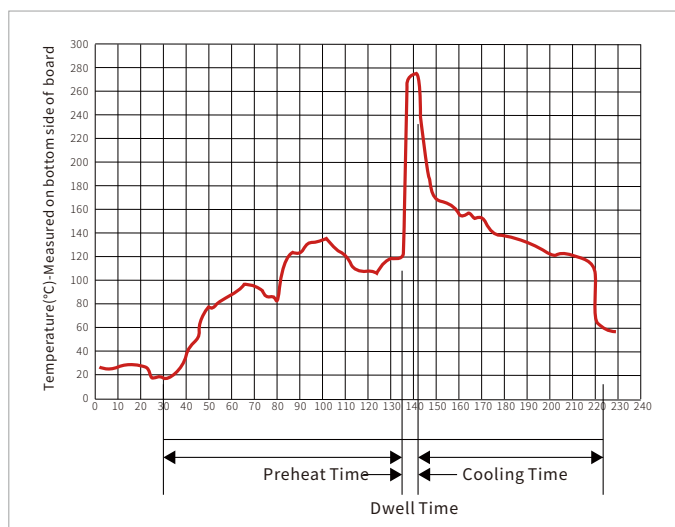


Fig.4 Typical Reverse Leakage Characteristics

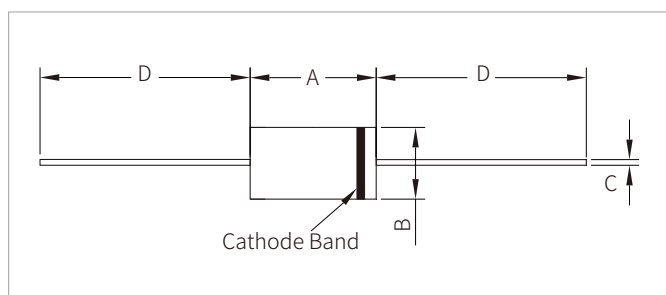


WAVE SOLDERING



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

DO-41 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	4.10	5.20	0.160	0.205
B	2.00	2.70	0.080	0.107
C	0.71	0.86	0.028	0.034
D	25.40	-	1.000	-

ORDERING INFORMATION

Part Number	Component Package	Per Carton	Description
1N5817G-1N5819G	DO-41	5000pcs	Box

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By QR Code

Website



Wechat

To find your local partner within Semiware's global website: www.semiware.com

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