

FEATURES

- | Glass passivated Junction chip

- | Low reverse leakage

- | High forward surge current capability



DO-41

MECHANICAL DATA

- | Case : Molded plastic body

- | Polarity symbol marking on body

- | Mounting Position : Any

APPROVALS

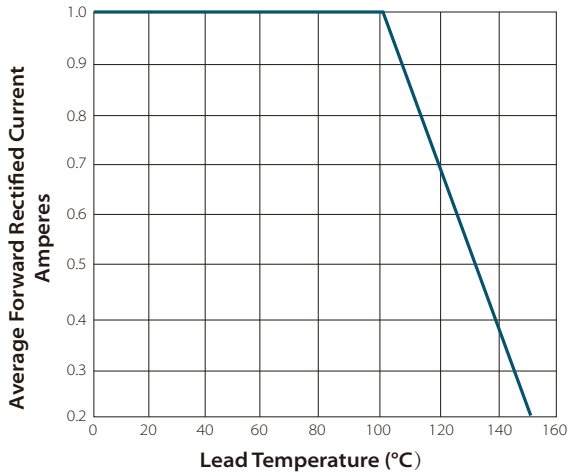
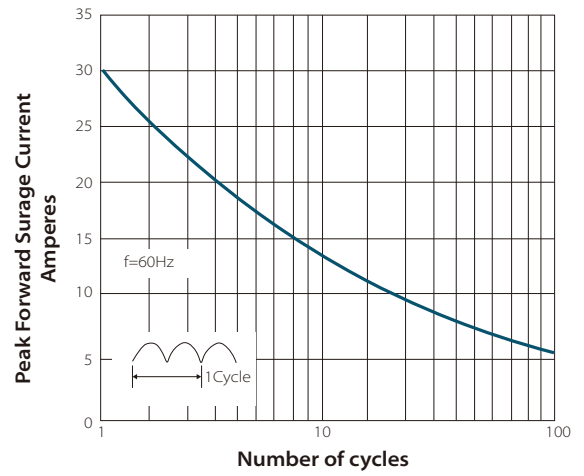
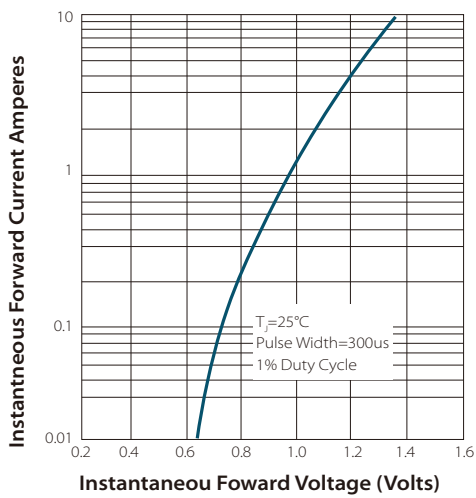
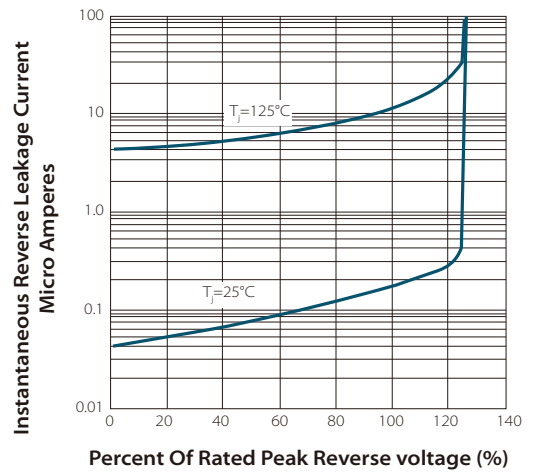
RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

MAXIMUM RATINGS AND CHARACTERISTICS (T_A=25°C)

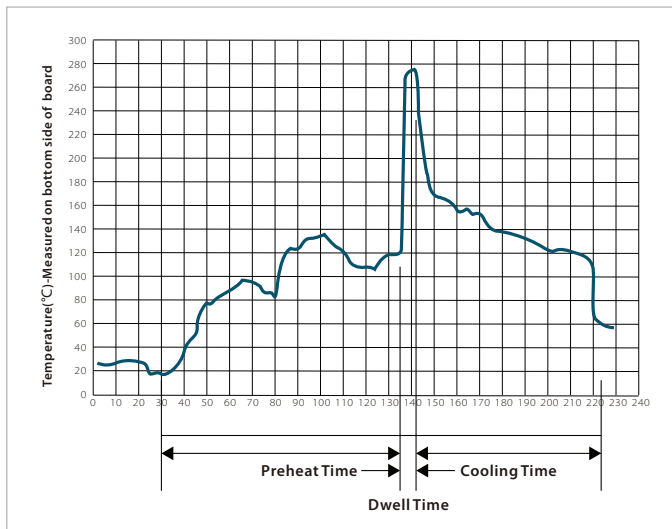
Parameter	Symbol	1N 4001G	1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	Unit
Marking		1N 4001G	1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	
Maximum average forward rectified current at T _L =100 C	I _{F(AV)}	1.0							A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	30.0							
Maximum Forward Voltage at I _F =1.0 A	V _F	1.0							V
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C	2.0							uA
	T _A =125°C	200							
Typical junction capacitance (Note1)	C _j	18.0							pF
Typical thermal resistance	R _{θJA}	80.0							°C/W
Operating junction and storage temperature range	T _j , T _{STG}	-55~+150							°C

Note:
 1) Measured at 1MHz and applied reverse voltage of 4.0V D.C

CHARACTERISTIC CURVES

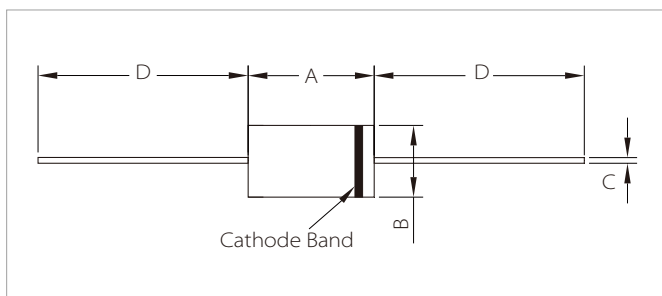
Fig.1 Derating Curve Output Rectified Current

Fig.2 Maximum Non-repetitive Peak Forward Surge Current

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
1N4001G-1N4007G	DO-41	5000pcs	Box

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