

FEATURES

- | Open 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 ($T_A=25^{\circ}\text{C}$)

Parameter		Symbol	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Unit
Marking			1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	
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 $T_L=100^{\circ}\text{C}$		$I_{F(AV)}$	1.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Singlehalf Sine-Wave		I_{FSM}	30.0							
Maximum Forward Voltage at $I_F=1.0\text{ A}$		V_F	1.0							V
Maximum DC Reverse Current At Rated DC Blocking Voltage	$T_A=25^{\circ}\text{C}$	I_R	5							μA
	$T_A=100^{\circ}\text{C}$		200							
Typical Junction Capacitance (Note1)		C_J	21.0							pF
Typical Thermal Resistance		$R_{\theta JA}$	65.0							$^{\circ}\text{C}/\text{W}$
Operating Junction And Storage Temperature Rang		T_J, T_{STG}	-55~+150							$^{\circ}\text{C}$

Note:

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

CHARACTERISTIC CURVES

Fig.1 Derating Curve Output Rectified Current

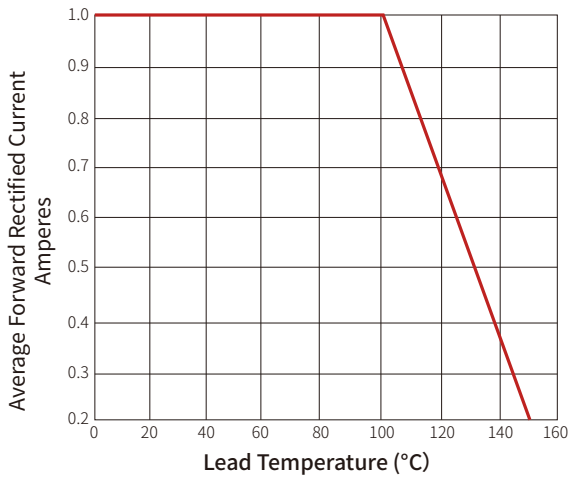


Fig.2 Maximum Non-repetitive Peak Forward Surge Current Perleg

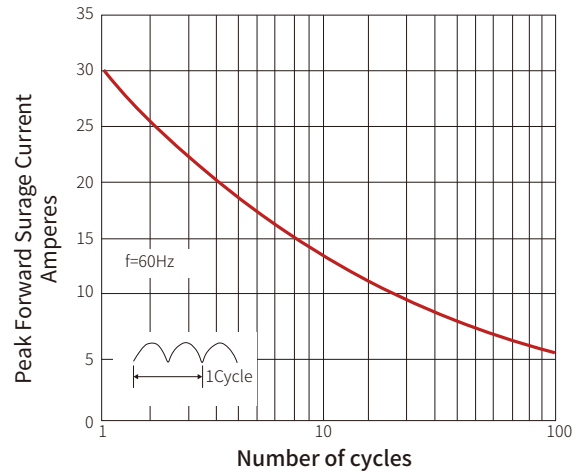


Fig.3 Typical Forward Voltage Characteristics

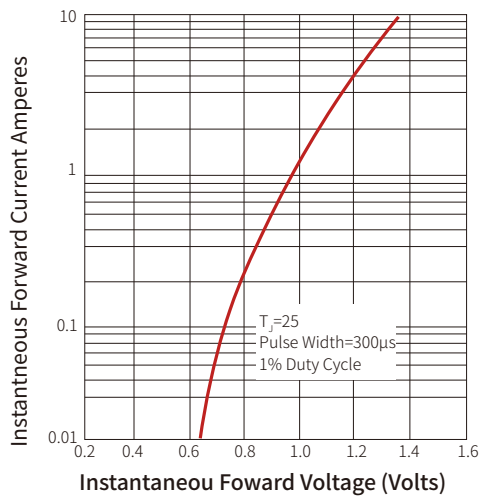
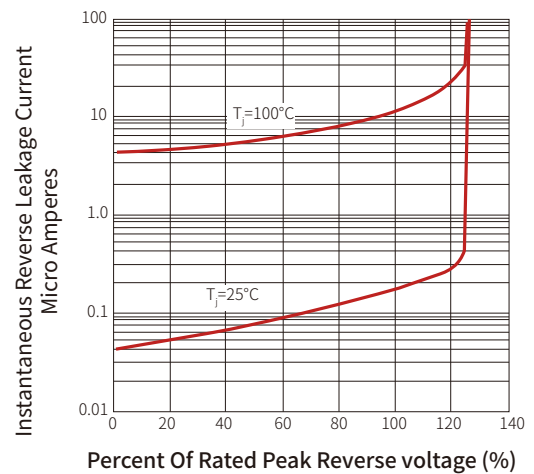
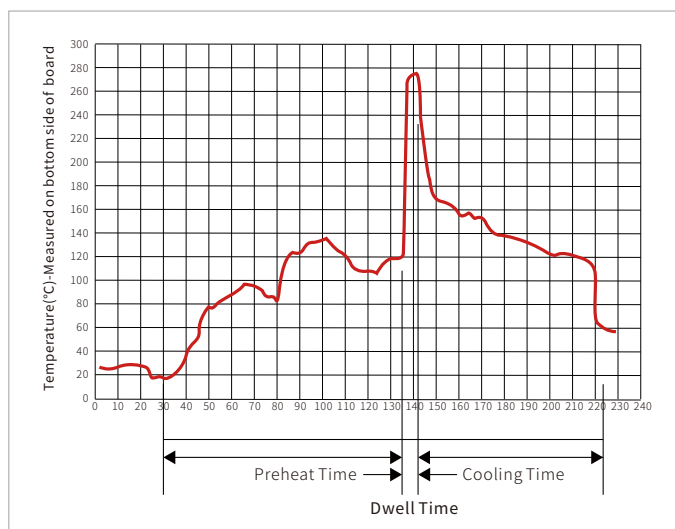


Fig.4 Typical Reverse Leakage Characteristics

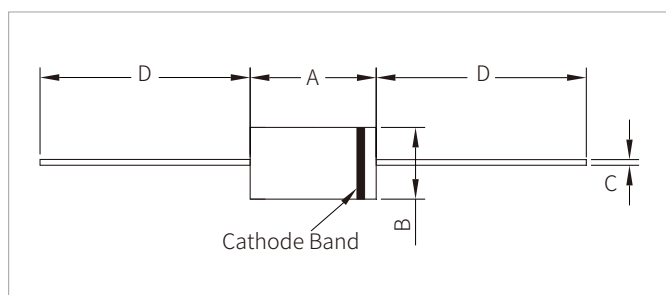


WAVE SOLDERING



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
1N4001-1N4007	DO-41	5000pcs	Box

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By QR Code

Website



Wechat

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