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°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°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 A		V_F	1.0							V
Maximum DC Reverse Current At Rated DC Blocking Voltage	T_A=25°C	I_R	5							µA
	T_A=100°C		200							
Typical Junction Capacitance (Note1)		C_J	21.0							pF
Typical Thermal Resistance		$R_{\theta JA}$	65.0							°C/W
Operating Junction And Storage Temperature Rang		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

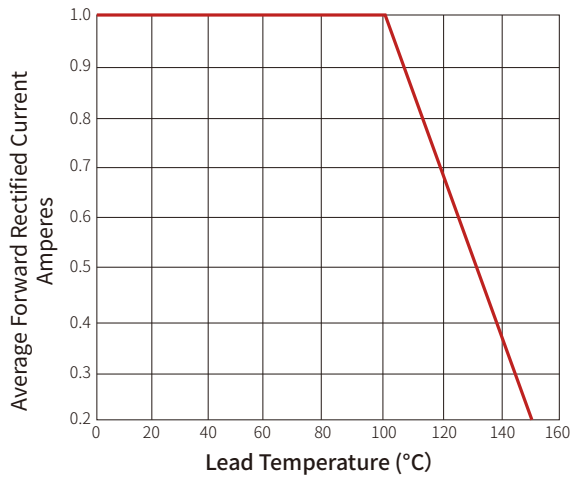


Fig.2 Maximum Non-repetitive Peak Forward Surge Current Perleg

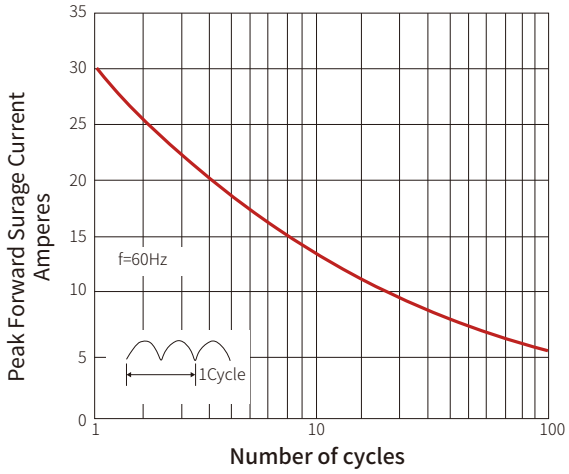


Fig.3 Typical Forward Voltage Characteristics

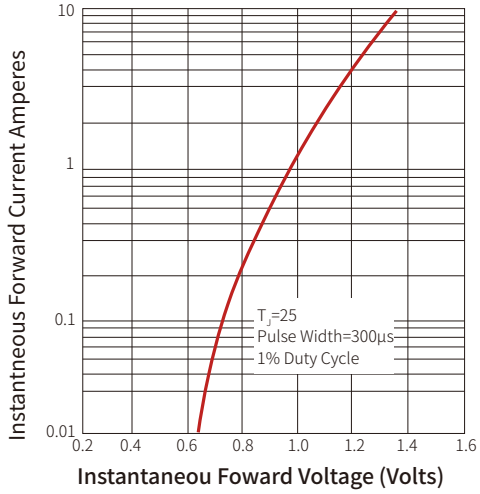
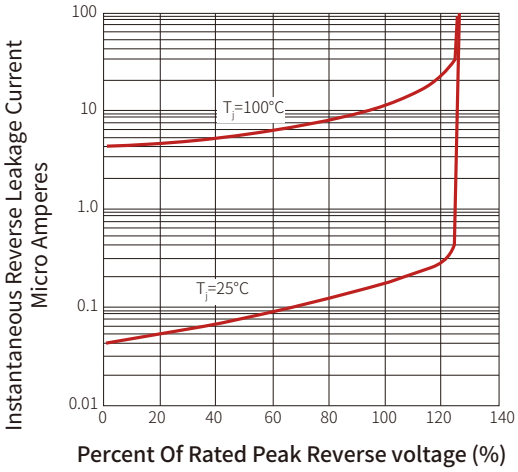
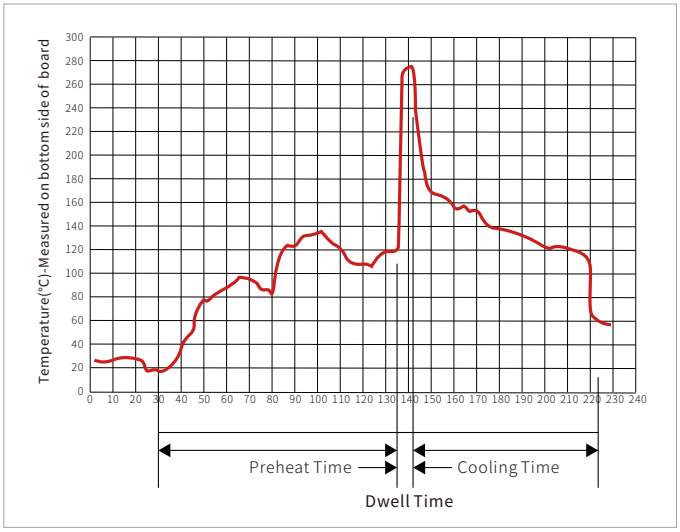


Fig.4 Typical Reverse Leakage Characteristics

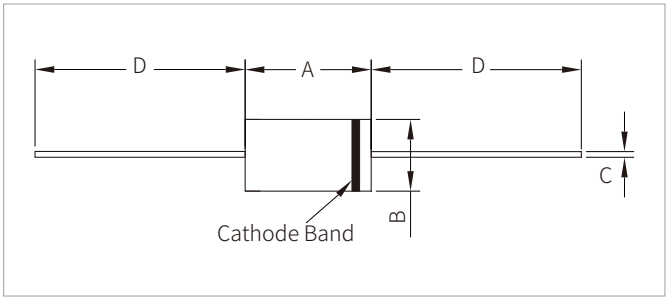


WAVE SOLDERING



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

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
Website
Wechat

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