

## 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

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

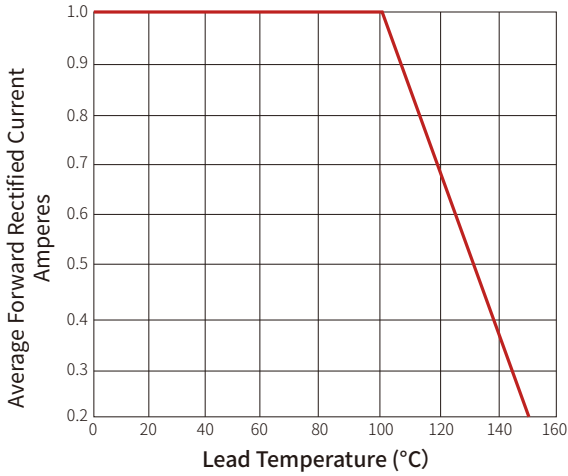
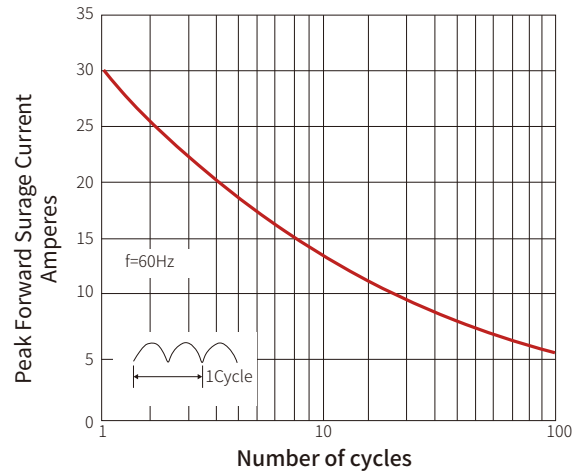
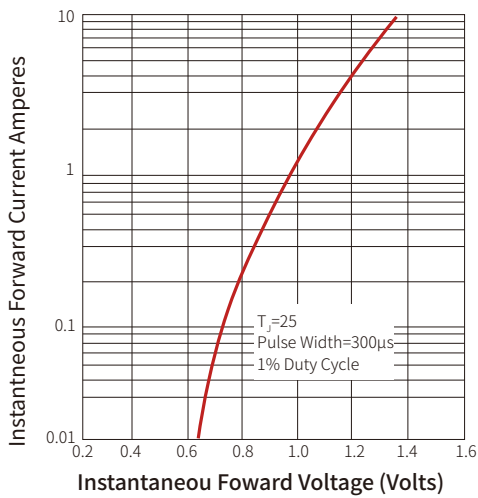
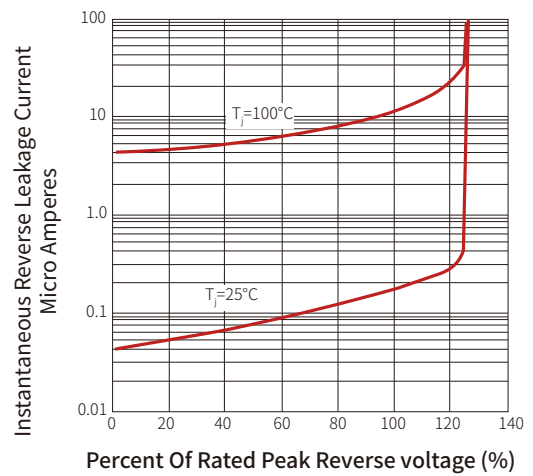
## MAXIMUM RATINGS AND CHARACTERISTICS (T<sub>A</sub>=25°C)

Parameter	Symbol	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Unit
Marking		1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current at T <sub>L</sub> =100°C	I <sub>F(AV)</sub>	1.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Singlehalf Sine-Wave	I <sub>FSM</sub>	30.0							
Maximum Forward Voltage at I <sub>F</sub> =1.0 A	V <sub>F</sub>	1.0							V
Maximum DC Reverse Current At Rated DC Blocking Voltage	T <sub>A</sub> =25°C	5							μA
	T <sub>A</sub> =100°C	200							
Typical Junction Capacitance (Note1)	C <sub>J</sub>	21.0							pF
Typical Thermal Resistance	R <sub>θJA</sub>	65.0							°C/W
Operating Junction And Storage Temperature Rang	T <sub>J</sub> , T <sub>STG</sub>	-55~+150							°C

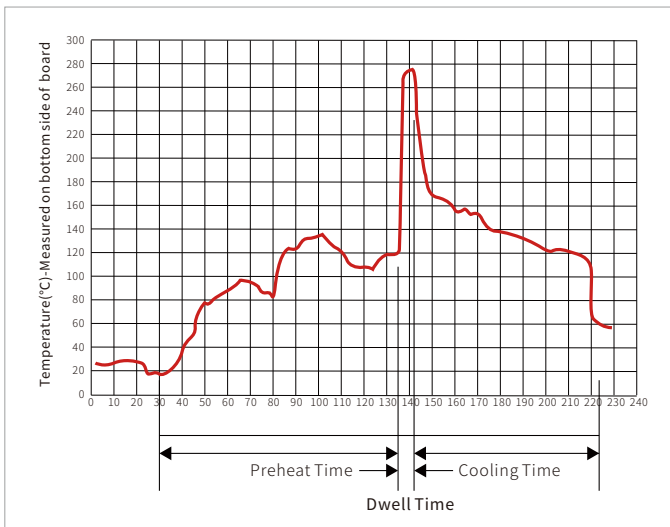
Note:

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

# CHARACTERISTIC CURVES

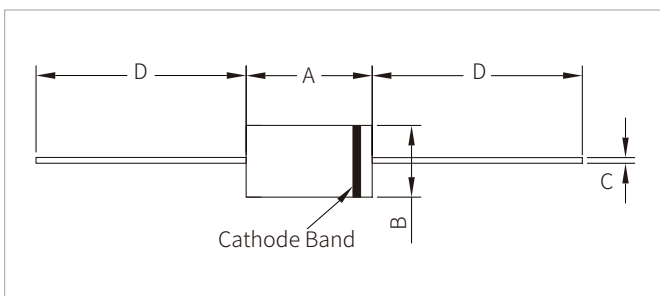
**Fig.1 Derating Curve Output Rectified Current**

**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

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