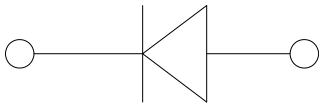




## General Purpose Rectifier



### Features

- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106

### Mechanical Data

- **Package:** DO-204AL(DO-41)  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Color band denotes cathode end

### ■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G
Device marking code			1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, Ta=75°C	IF(AV)	A	1.0						
Surge(Non-repetitive)Forward Current @ 60Hz Half-sine wave,1 cycle, Ta=25°C	IFSM	A	30						
Storage Temperature	Tstg	°C	-55 ~+150						
Junction Temperature	Tj	°C	-55~+150						

### ■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G
Maximum instantaneous forward voltage drop per diode	V <sub>FM</sub>	V	IFM=1.0A	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>RRM1</sub>	μA	Ta=25°C	2.5						
	I <sub>RRM2</sub>		Ta=125°C	50						
Typical junction capacitance	Cj	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	12						

### ■Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G
Thermal Resistance(Typical)	R <sub>θJ-A</sub>	°C/W	60						



# 1N4001G THRU 1N4007G

## Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N4001G~1N4007G	D1	Approximate 0.27	Approximate 5000	5000	50000	Tape
1N4001G~1N4007G	C1	Approximate 0.27	Approximate 1000	1000	50000	Bulk

## Characteristics (Typical)

FIG.1:  $I_o$ - $T_a$  Curve

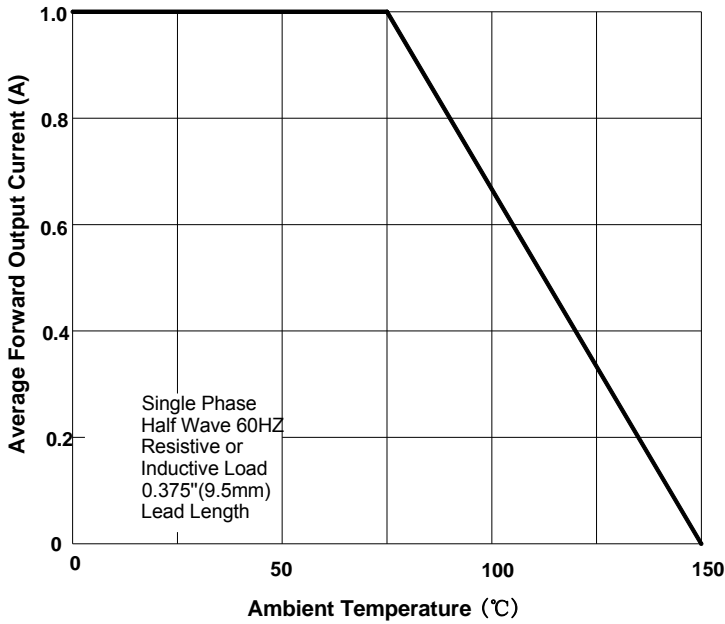


FIG.2: Surge Forward Current Capability

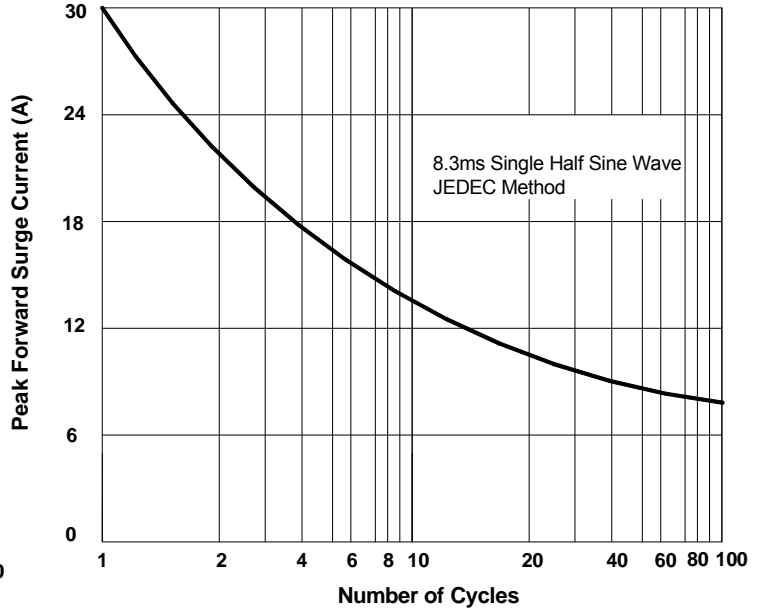


FIG.3: Forward Voltage

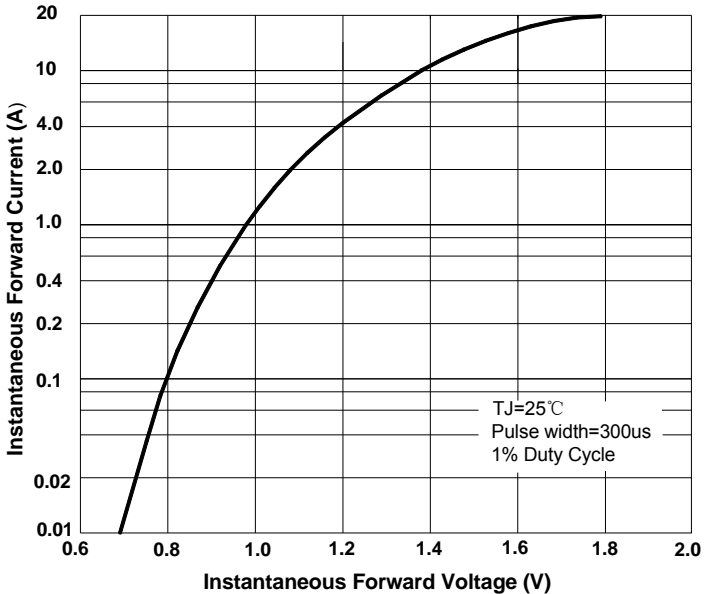
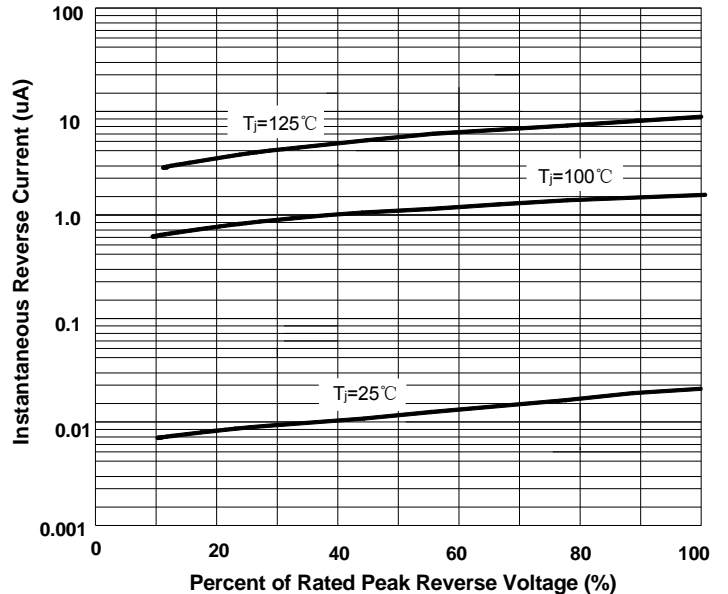


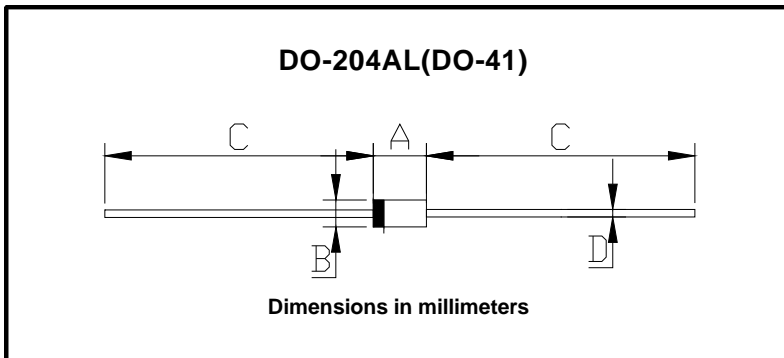
FIG.4: Typical Reverse Characteristics





# 1N4001G THRU 1N4007G

## ■ Outline Dimensions



<b>DO-204AL(DO-41)</b>		
Dim	Min	Max
A	4.22	5.21
B	2.03	2.72
C	25.4	/
D	0.69	0.86



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