

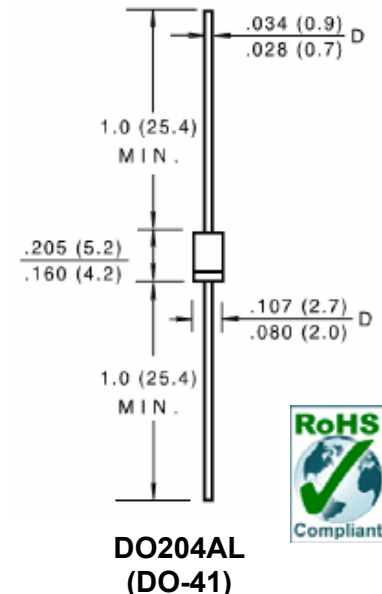
### 1.0A General Purpose Silicon Rectifier

#### Features

- Glass passivated junction
- Low forward voltage drop
- Low leakage current
- High forward surge current capability
- High temperature soldering guaranteed 265°C/10 seconds  
/.037" (9.5mm) lead length at 5lbs (2.3kg) tension
- RoHS Compliant

#### Mechanical Data

<b>Case:</b>	DO-204AL, transfer molded plastic
<b>Epoxy:</b>	Meets UL 94V-0 flammability rating
<b>Terminals:</b>	Plated axial leads, solderable per MIL-STD-202E, Method 208C
<b>Polarity:</b>	Cathode indicated by color band
<b>Mounting position:</b>	Any
<b>Weight:</b>	0.012Ounce, 0.33 gram



#### Maximum Ratings ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	Unit
<b>VRRM</b>	Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
<b>VRMS</b>	Maximum RMS Voltage	35	70	140	280	420	560	700	V
<b>VDC</b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
<b>IFSM</b>	Peak Forward Surge Current (Note 1)	30							A
<b>IR(AV)</b>	Maximum Full Load Reverse Current (note 2)	30							$\mu$ A
<b>TJ, TSTG</b>	Operating and Storage Temperature Range	-65 to +175							$^{\circ}C$

- Note:**
1. 8.3ms single half sine - wave superimposed on rated load (JEDEC method)
  2. 0.375" (9.5mm) lead length at  $T_A = 75^{\circ}C$

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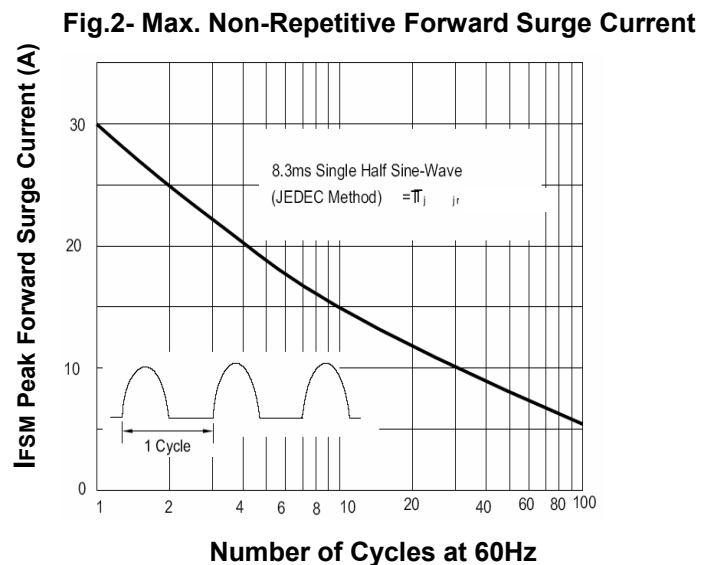
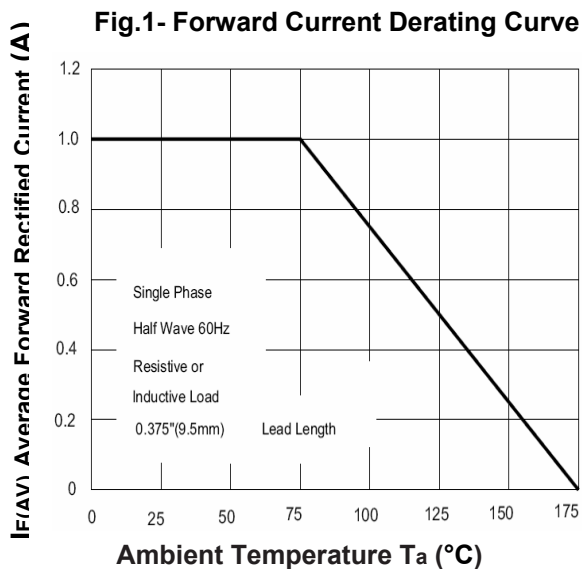
## 1N4001G~1N4007G

### Electrical Characteristics ( $T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	Unit
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward current at 1.0A	1.1							V
<b>I<sub>R</sub></b>	Maximum DC Reverse current at rated DC blocking voltage	T <sub>A</sub> =25 ° C		5.0					μA
		T <sub>A</sub> =125 ° C		50					
<b>C<sub>J</sub></b>	Typical Junction Capacitance	15							pF
<b>R<sub>θ-JA</sub></b>	Thermal Resistance Junction to Air	50							° C/W

**Note:** 1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts  
 2. Thermal Resistance from Junction to Ambient at .375" (9.5mm) lead length, P.C. board mounted.

### Typical Characteristics Curves



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Fig.3- Typical Instantaneous Forward Characteristics

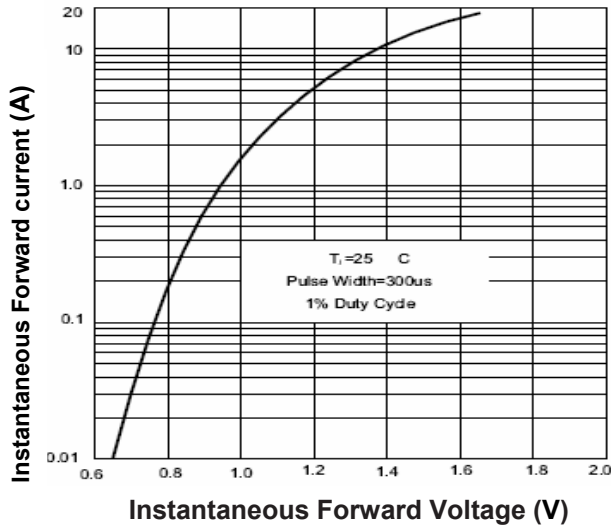


Fig.4- Typical Reverse Characteristics

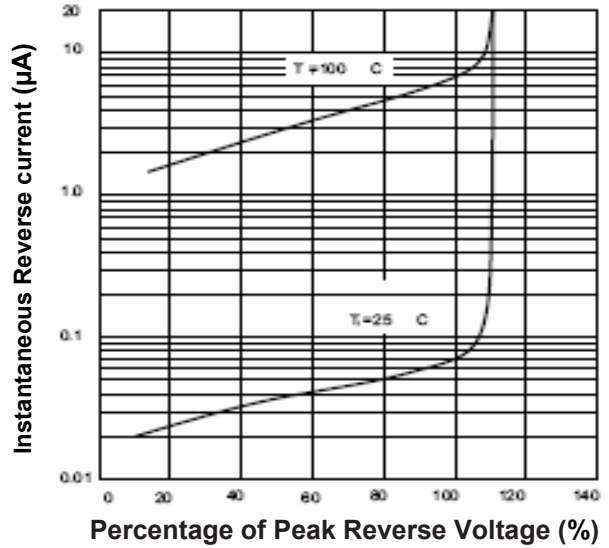
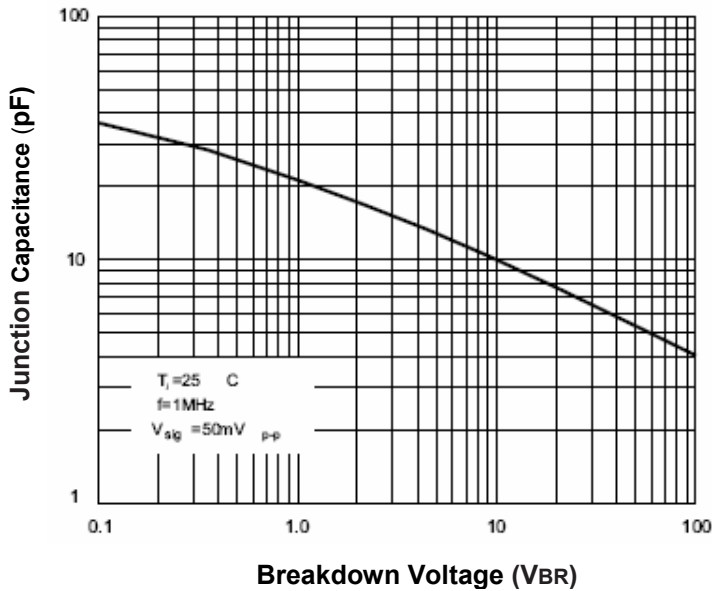


Fig.5- Typical Junction Capacitance



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1N4001G~1N4007G

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