

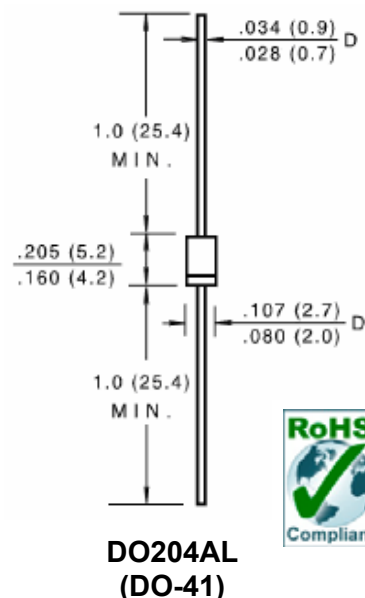
1.0A General Purpose Silicon Rectifier

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

Case:	DO-204AL, transfer molded plastic
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Plated axial leads, solderable per MIL-STD-202E, Method 208C
Polarity:	Cathode indicated by color band
Mounting position:	Any
Weight:	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
VRRM	Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
VRMS	Maximum RMS Voltage	35	70	140	280	420	560	700	V
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
IFSM	Peak Forward Surge Current (Note 1)	30							A
IR(AV)	Maximum Full Load Reverse Current (note 2)	30							μA
TJ, TSTG	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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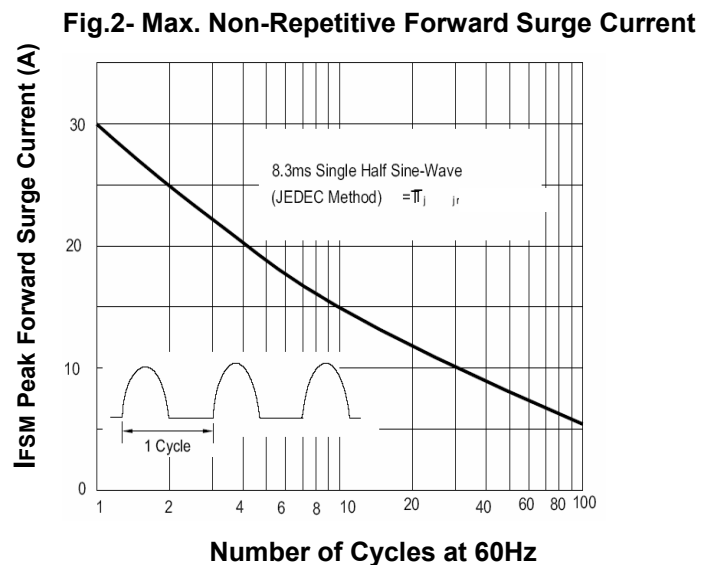
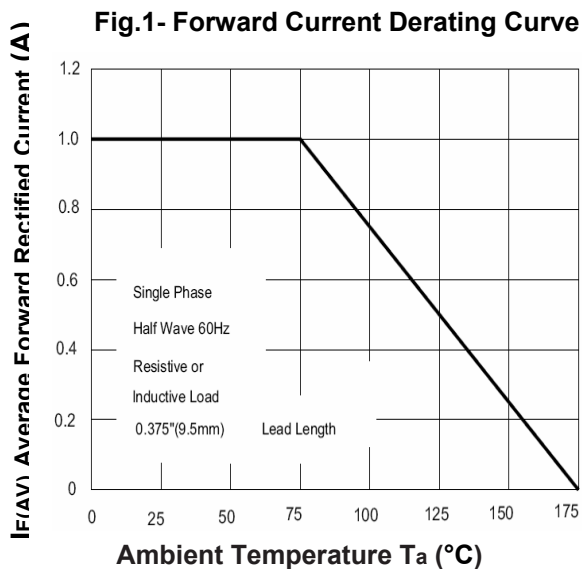
1N4001G~1N4007G

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

Symbol	Description		1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	Unit
VF	Maximum Instantaneous Forward current at 1.0A		1.1							V
IR	Maximum DC Reverse current at rated DC blocking voltage	TA=25 ° C	5.0							µA
		TA=125 ° C	50							
CJ	Typical Junction Capacitance		15							pF
Rθ-JA	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

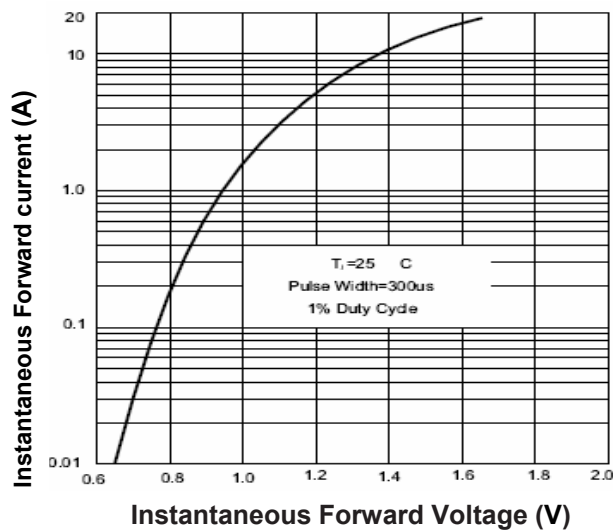


Fig.4- Typical Reverse Characteristics

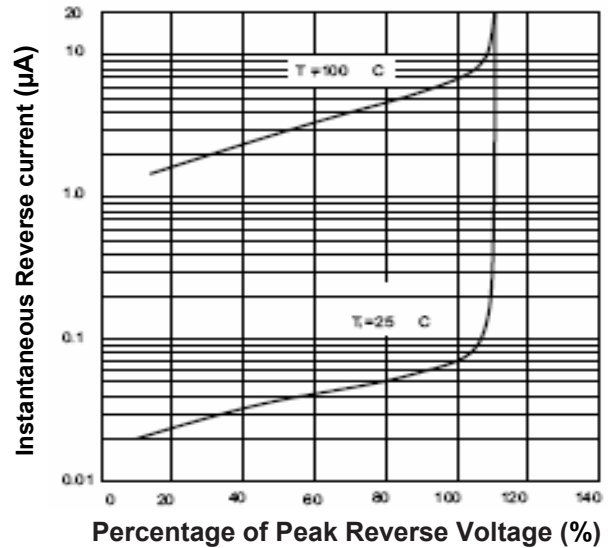
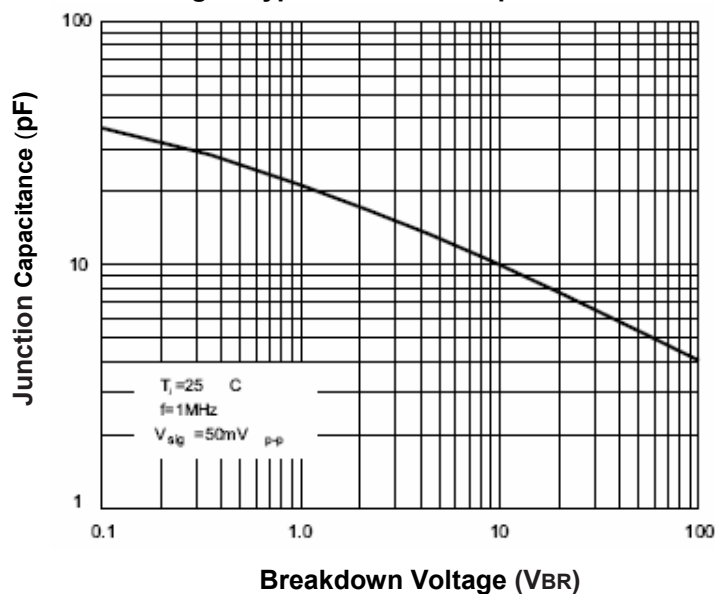


Fig.5- Typical Junction Capacitance



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