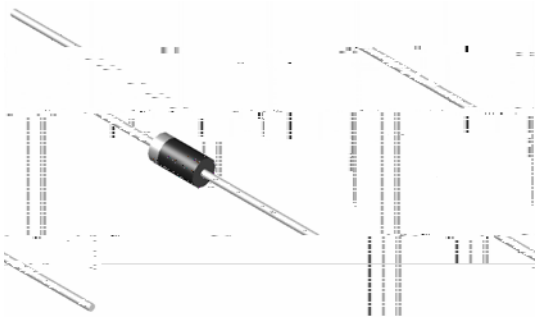
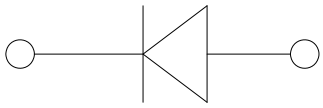
1N4001G THRU 1N4007G

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

Typical Applications

For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

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:** (Ta=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G
Device marking code			1N4001G	1N4002G	1N4003 G	1N4004 G	1N4005G	1N4006G	1N4007G
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, Ta =85	$I_{F(AV)}$	A	1.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25	I_{FSM}	A	30						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			60						
Current squared time @1ms≤t8.3≤ms Tj=25 Rating of per diode	I^2t	A^2s	3.735						
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	Cj	pF	6						
Storage Temperature	T_{stg}		-55 ~ +150						
Junction Temperature	Tj		-55 ~ +150						

■Electrical Characteristics Ta=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=1.0A	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j =25	2.5						
			T_j =125	50						

v7KHUPDO &KDUDÄF7WHULVWLFV RWKHUÅLVH VSHFLILHG

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v2UGHULQJ ,QIRUPDWLRQ

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1 *a 1 *	&	$SSUR[LPDWH	$SSUR[LPDWH			XON

v&KDUDFWHU7\SLVWLF&DFV

7-
3XOVH ZLGWK XV
'XW\ &\FOH