

1N4001 THRU 1N4007

General Purpose Rectifier

Essential information; basic information

Features

- High efficiency
- High current capability
- High reliability
- Glass passivated chip junction

Typical Applications

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

Mechanical Data

- Package: 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: Cathode line denotes the cathode end

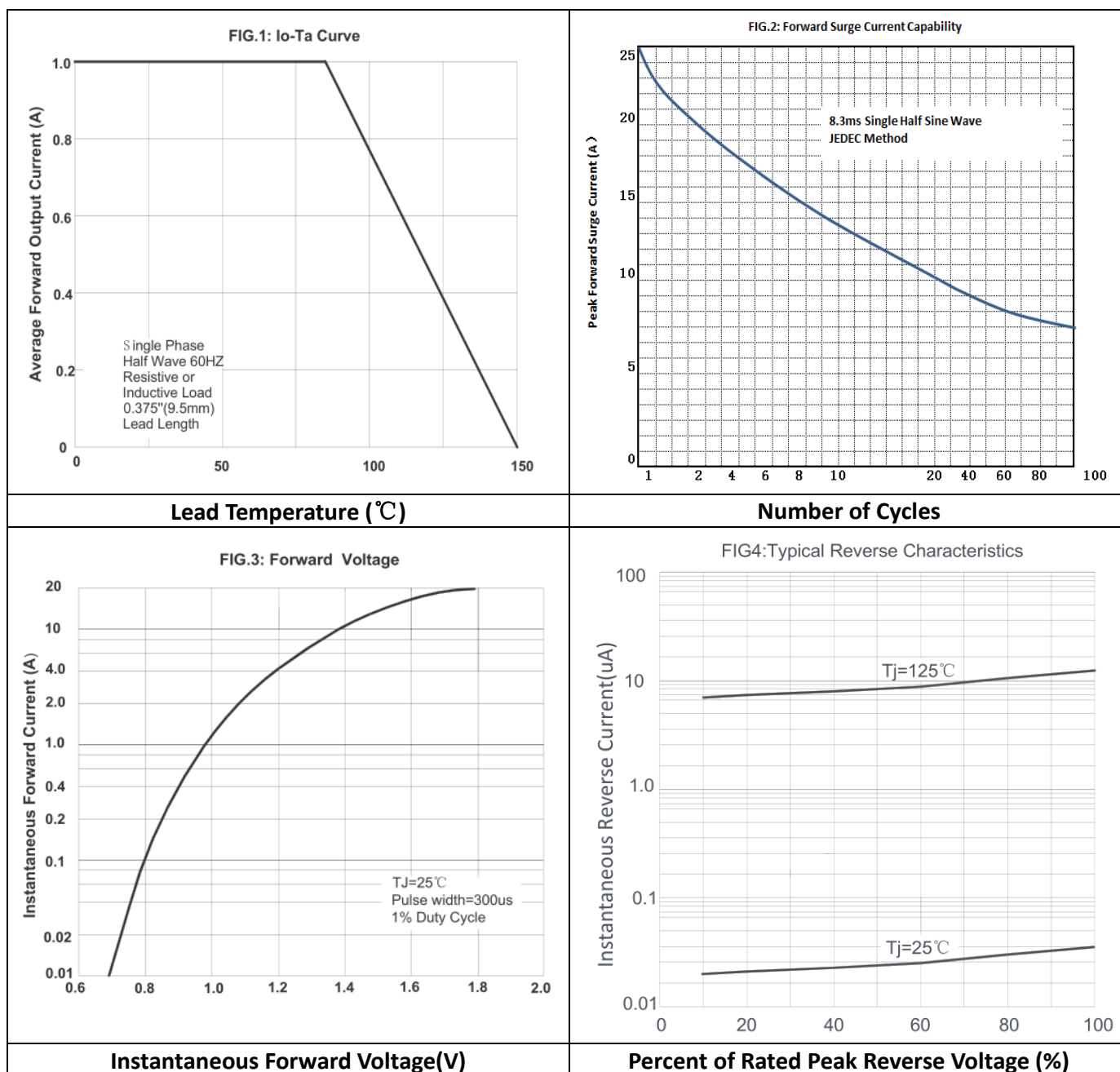


Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007
Maximum Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC Blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average rectified output current@60Hz sine wave, resistance load, TL (Fig.1)	IO	A	1.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	IFSM	A	25						
Storage temperature	Tstg	°C	-55 ~ +150						
Junction temperature	Tj	°C	-55 ~ +150						

PARAMETER	SYMBOL	UNIT	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007
Maximum instantaneous forward voltage drop per diode	VF IFM=1.0A	V	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	IR Tj =25℃	μ A	5						
	IR Tj =125℃		50						

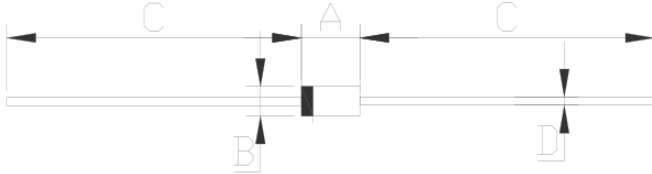
Characteristics (Typical)



Ordering Information (Example)

type specification	manner of packin	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N4001-1N4007 (DO-41)	T/B	5000	5000	50000	10 盒
	B/P	1000	1000	50000	50 盒

Outline Dimensions

DO-204AL (DO-41)		DO-204AL (DO-41)		
 Dimensions in millimeters		Dim	Min	Max
		A	4.22	5.21
		B	2.03	2.72
		C	20	/
		D	0.5	0.86

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