1N5400G THRU 1N5408G

Glass Passivated Silicon Rectifiers

Reverse Voltage: 50 to 1000 Volts
Forward Current: 3.0 Ampere

RoHS Device
Halogen Free

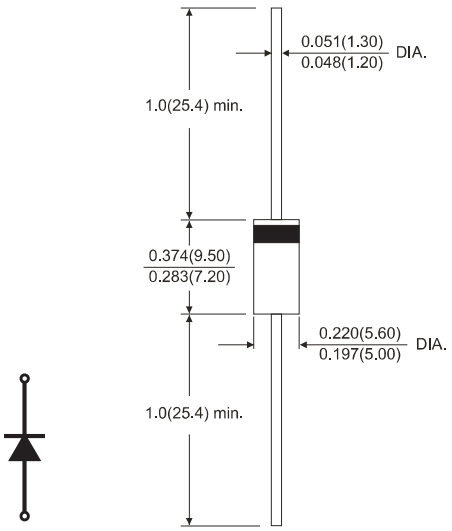
Features

- Low cost
- Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0

Mechanical data

- Case: JEDEC DO-201AD molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any

DO-201AD(DO-27)



Dimensions in inches and (millimeter)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter		Symbol	1N5400G	1N5401G	1N5402G	1N5404G	1N5406G	1N5407G	1N5408G	Unit
Maximum repetitive peak reverse voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current @TA=125°C		$I_{F(AV)}$	3.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	150							A
Maximum instantaneous forward voltage at 3.0A		V_F	1.10							V
Maximum DC reverse current at rated DC blocking voltage	@TA=25°C	I_R	10.0							μA
	@TA=100°C		100							
Typical junction capacitance (Note 1)		C_J	50							pF
Typical thermal resistance (Note 2)		$R_{\theta JA}$	20							°C/W
Operating junction and storage temperature range		T_J, T_{STG}	-55 to +150							°C

Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Rating and Characteristic Curves

FIG. 1- FORWARD CURRENT DERATING CURVE

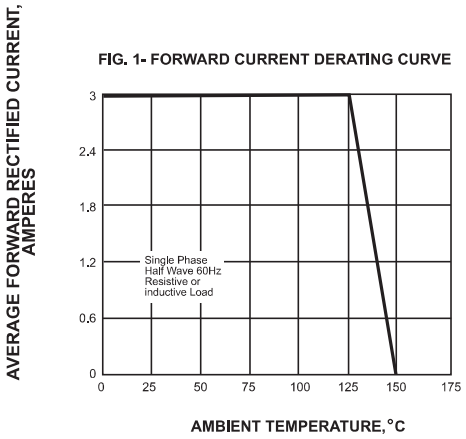


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

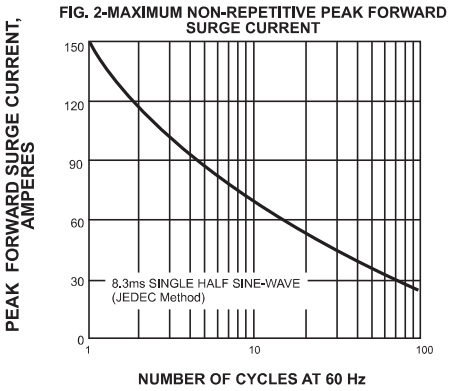


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

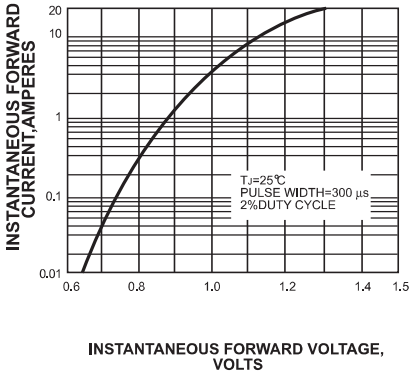


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

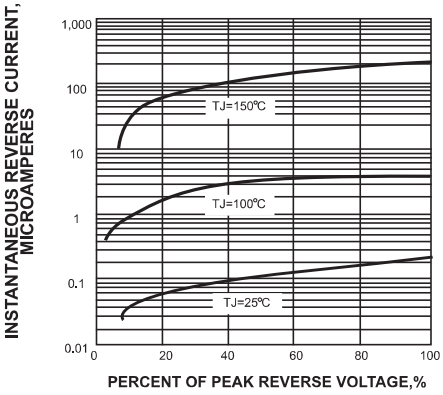


FIG. 5-TYPICAL JUNCTION CAPACITANCE

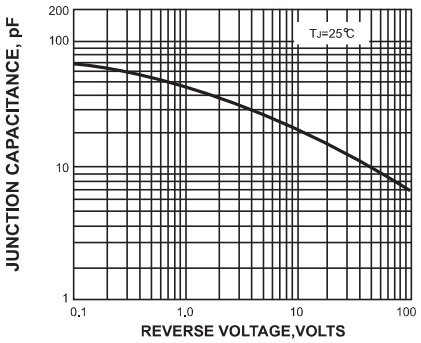
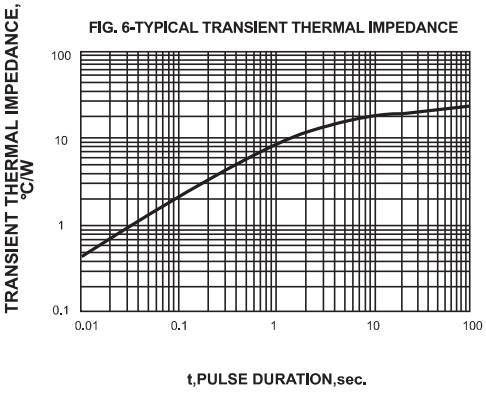


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



Marking Code

Part Number	Marking code	Packaging
1N5400G	1N5400G	AMMO
1N5401G	1N5401G	
1N5402G	1N5402G	
1N5404G	1N5404G	
1N5406G	1N5406G	
1N5407G	1N5407G	
1N5408G	1N5408G	
1N5400GT	1N5400G	REEL
1N5401GT	1N5401G	
1N5402GT	1N5402G	
1N5404GT	1N5404G	
1N5406GT	1N5406G	
1N5407GT	1N5407G	
1N5408GT	1N5408G	
1N5400GB	1N5400G	BULK
1N5401GB	1N5401G	
1N5402GB	1N5402G	
1N5404GB	1N5404G	
1N5406GB	1N5406G	
1N5407GB	1N5407G	
1N5408GB	1N5408G	

XX = Product type marking code

Note:

1) Suffix code after part number to specify packaging item .

Packaging	Code
AMMO PACK	NA
REEL PACK	T
BULK PACK	B

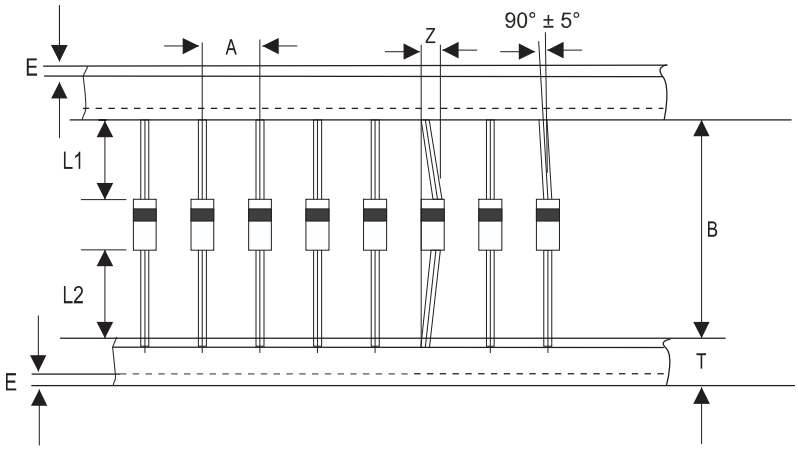
Standard Packaging

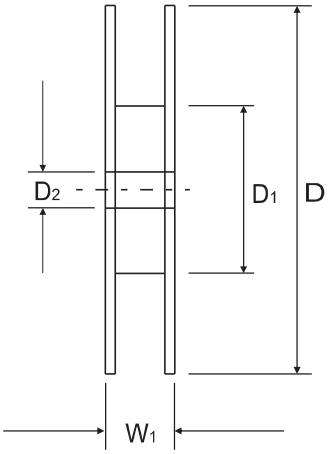
Case Type	AMMO PACK
	BOX (pcs)
DO-201AD	1,250

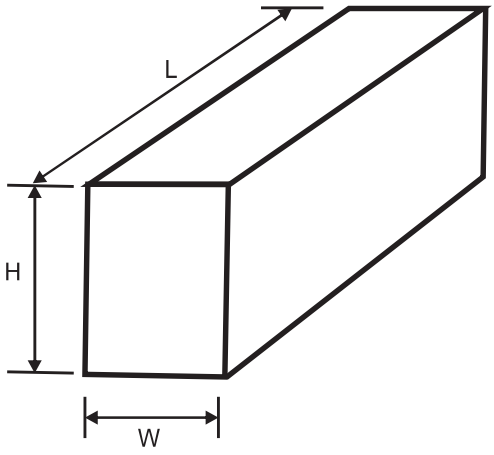
Case Type	BULK PACK
	BOX (pcs)
DO-201AD	200

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DO-201AD	1,200	13

Taping Specification For Axial Lead Diodes







	SYMBOL	A	B	Z	T	E	|L1-L2|
DO-201AD	(mm)	10.00 ± 0.50	52.40 + 1.50 - 0.40	1.20 (max)	6.00 ± 0.40	0.80 (max)	1.00 (max)
	(inch)	0.394 ± 0.020	2.063 + 0.059 - 0.016	0.047 (max)	0.236 ± 0.016	0.031 (max)	0.039 (max)

	SYMBOL	L	W	H	D	D1	D2	W1
DO-201AD	(mm)	255.00 ± 5.00	75.00 ± 5.00	150.00 ± 5.00	330	85.70 ± 0.30	16.60 ± 0.40	79.00 ± 1.00
	(inch)	10.039 ± 0.197	2.953 ± 0.197	5.906 ± 0.197	12.992	3.374 ± 0.012	0.654 ± 0.016	3.110 ± 0.039