

1N4001GP - 1N4007GP

Features

- Low forward voltage drop.
- High surge current capability.
- High reliability.
- High current capability.



COLOR BAND DENOTES CATHODE

1.0 Ampere Glass Passivated Rectifiers

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
I _{F(AV)}	Average Rectified Current .375 " lead length @ T _A = 75°C	1.0	А	
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	30	А	
P_D	Total Device Dissipation Derate above 25°C	3.0 20	W mW/°C	
$R_{\theta JA}$	Thermal Resistance, Junction to ambient	50	°C/W	
T _{stg}	Storage Temperature Range	-65 to +175	°C	
TJ	Operating Junction Temperature	-65 to +175	°C	

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

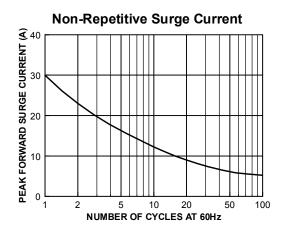
Electrical Characteristics T_A = 25°C unless otherwise noted

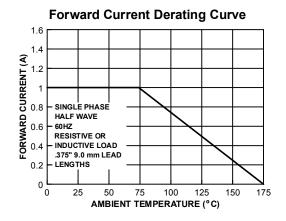
Symbol	mbol Parameter		Device					Units	
			4002GP	4003GP	4004GP	4005GP	4006GP	4007GP	
V_{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
V _{RMS}	Maximum RMS Voltage		70	140	280	420	560	700	V
V _R	DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
I _{RM}	Maximum Instantaneous Reverse Current @ rated V_R $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$				5.0 50				μ Α μ Α
V_{FM}	Maximum Instantaneous Forward Voltage @ 1.0 A	ge 1.1					V		
С	Typical Junction Capacitance 8.0 $V_R = 4.0 \text{ V}, f = 1.0 \text{ MHz}$				pF				

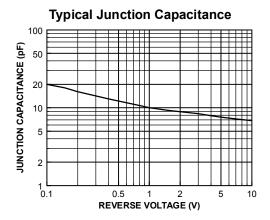
Glass Passivated Rectifiers

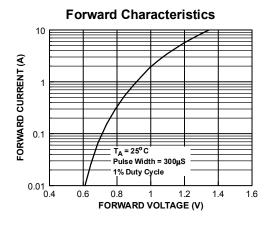
(continued)

Typical Characteristics





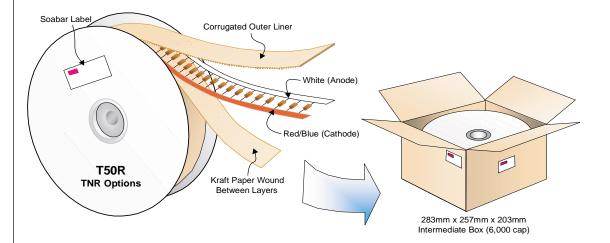




DO-41 (Glass) Tape and Ammo Data



DO-41 (Glass) Packaging Configuration: Figure 1.0



DO-41 (Glass) Packaging Information

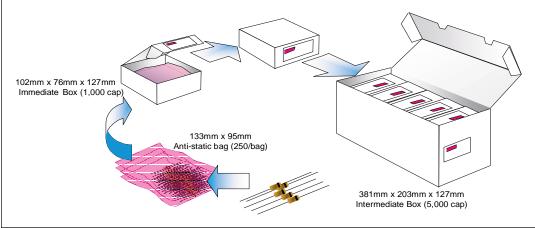
Table: Figure 2.0

DO-41 (Glass) Packaging Information						
Packaging Option	T50R	T50A	Standard (no flow code)			
Packaging type	TNR	Ammo	Bag			
Qty per Reel/Tube/Bag	3,000	3,000	250			
Reel Size (inch diameter)	10.5	-	-			
Inside Tape Spacing (mm)	52	52	-			
Int Box Dimension (mm)	283x257x203	406x267x184	381x203x127			
Max qty per Box	6,000	30,000	5,000			
Weight per unit (gm)	0.320	0.320	0.320			
Weight per Reel (kg)	1.356	1.077	-			
Note/Comments			Bulk			

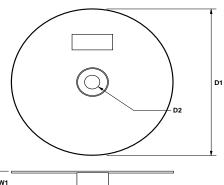
Soabar Label sample

SEMICO	NDUCTOR 14	P.O. No.	
TYPE	1N4744A	MARK	BLK-BRN
REV	A2	PART No.	
PKG		EC No.	
QTY	3,000	M.O. No.	OX5046F035
Q.C.		DATE	D9903
MFD. UN	DER US PAT 3.025.589	& OTHER US PATS 8	APPLICATIONS

DO-41 (Glass) Bulk Packing Configuration: Figure 3.0



DO-41 (Glass) Tape and Ammo Data, continued DO-41 (Glass) Ammo Packing Configuration: Figure 4.0 254mm x 79mm x 79mm Immediate Container (3,000 cap) T50A Option 406mm x 267mm x 184mm rmediate Container (50,000 cap) for T50A option DO-41 (Glass) Taping Dimension: Figure 5.0 TAPING DIMENSIONS NOTES INCH MILS Overall width 2.047±0.027 52 ±0.69 2047±27 Inside Tape Spacing 0.200 ±0.0157 5.08 ±0.40 200 ±15.7 Component Pitch 0.047(max) 1.2(max) 47(max) Component Misalignmen 0.022(max) 0.55(max) 22(max) Tape Mismatch 0.027(max) ±0.69 ±27 Units in line w/ one another 0.126(min) 3.2(min) 126(min) Lead amount between tapes Lead amount beyond tapes L1-L2 ±0.027 ±0.69 ±27 Delta between two leads DO-41 (Glass) Reel Dimension: Figure 6.0



REEL DIMENSIONS ITEM DESCRIPTION	SYMBOL	MINIMUM	MAXIMUM
Reel Diameter	D1	10.375	10.625
Arbor Hole Diameter (Standard)	D2	1.245	1.255
Core Diameter	D3	3.190	3.310
Flange to Flange Outer Width	W1		3.400

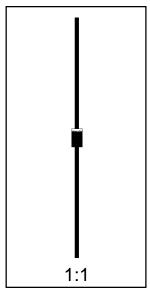
Note: All Dimensions are in inches

DO-41 (Glass) Package Dimensions



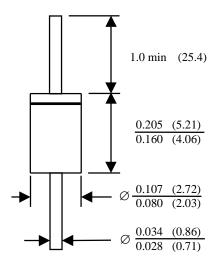
DO-41 (FS PKG Code D4)





Scale 1:1 on letter size paper
Dimensions shown below are in:
inches [millimeters]

Part Weight per unit (gram): 0.32



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