

# Silicon Switching Diode

1N4150  
or  
1N4150-1

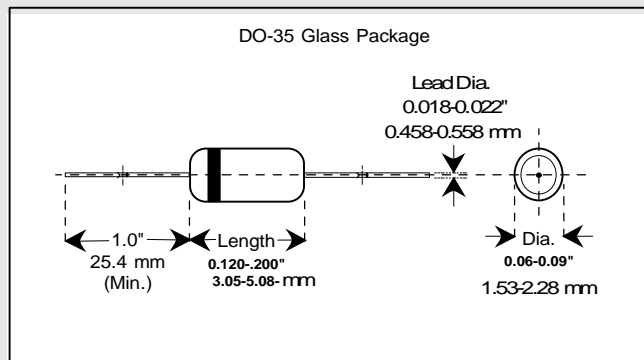
# DO-35 Glass Package

## Applications

Used in general purpose applications, where a controlled forward characteristic and fast switching speed are important.

## Features

- Six sigma quality
- Metallurgically bonded
- BKC's Sigma Bond™ plating for problem free solderability
- LL-34/35 MELF SMD available
- Full approval to Mil-S-19500/231
- Available up to JANTXV-1 levels
- "S" level screening available to Source Control Drawings



Maximum Ratings	Symbol	Value	Unit	
Peak Inverse Voltage	PIV	75 (Min.)	Volts	
Average Rectified Current	$I_{Avg}$	200	mAmps	
Continuous Forward Current	$I_{Fdc}$	400	mAmps	
Peak Surge Current ( $t_{peak} = 1$ sec.)	$I_{peak}$	0.5	Amp	
BKC Power Dissipation $T_L = 50$ °C, $L = 3/8$ " from body	$P_{tot}$	500	mWatts	
Operating Temperature Range	$T_{Op}$	-65 to +200	°C	
Storage Temperature Range	$T_{St}$	-65 to +200	°C	
Electrical Characteristics @ 25 °C	Symbol	Minimum	Maximum	Unit
Forward Voltage Drop @ $I_F = 1.0$ mA	$V_F$	0.54	0.62	Volts
Forward Voltage Drop @ $I_F = 10$ mA	$V_F$	0.66	0.74	Volts
Forward Voltage Drop @ $I_F = 50$ mA	$V_F$	0.76	0.86	Volts
Forward Voltage Drop @ $I_F = 100$ mA	$V_F$	0.80	0.92	Volts
Forward Voltage Drop @ $I_F = 200$ mA	$V_F$	0.87	1.0	Volts
Reverse Leakage Current @ $V_R = 50$ V	$I_R$		0.1 (100 @ 150 °C)	µA
Breakdown Voltage @ $I_R = 0.1$ mA	PIV	75		Volts
Capacitance @ $V_R = 0$ V, $f = 1$ MHz	$C_T$		2.5	pF
Reverse Recovery time (note 1)	$t_{rr}$		4.0	nSecs
Reverse Recovery time (note 2,3)	$t_{rr}$		6.0	nSecs
Forward Recovery time (note 4)	$V_{fr}$		10	nSecs

Note 1: Per Method 4031-A with  $I_F = I_R = 10$  to 200 mA,  $R_L = 100$  Ohms, recover to 0.1 If.

Note 2: Per Method 4031-A with  $I_F = I_R = 200$  to 400 mA,  $R_L = 100$  Ohms, recover to 0.1 If.

Note 3: Per Method 4031-A with  $I_F = 10$  microA,  $I_R = 1.0$  mA, recover to 0.1 mA.

Note 4: Per Method 4026 with  $I_F = 200$  mA,  $I_R = 1.0$  mA, recover to 0.1 mA.



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