

Silicon Switching Diode

1N4153, 1N4153-1

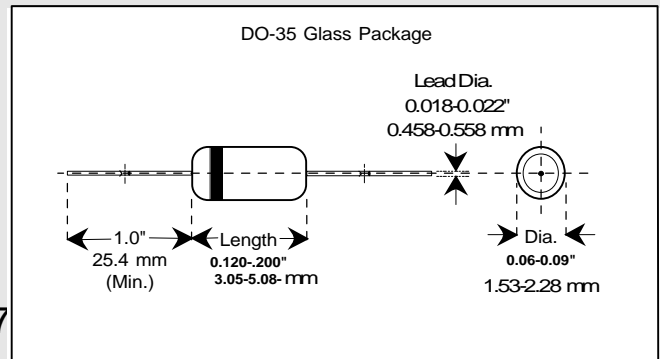
DO-35 Glass Package

Applications

Used in general purpose applications, where a low current 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-19500/337
- Available up to JANTXV-1 levels
- "S" level screening available to SCDs



Maximum Ratings		Symbol	Value	Unit	
Peak Inverse Voltage		PIV	75 (Min.)	Volts	
Average Rectified Current		I_{Avg}	150	mAmps	
Continuous Forward Current		I_{Fdc}	300	mAmps	
Peak Surge Current ($t_{peak} = 1$ Sec.)		I_{peak}	0.25	Amp	
BKC Power Dissipation $T_L = 50^\circ C, L = 3/8"$ from body		P_{tot}	500	mWatts	
Operating and Storage Temperature Range		$T_{Op \& St}$	-65 to +200	$^\circ C$	
Electrical Characteristics @ 25 $^\circ C^*$		Symbol	Minimum	Maximum	Unit
Forward Voltage @ $I_F = 100 \mu A$	V_F	V_f	0.49	0.55	Volts
Forward Voltage @ $I_F = 250 \mu A$	V_F	V_f	0.53	0.59	Volts
Forward Voltage @ $I_F = 1.0 mA$	V_F	V_f	0.59	0.67	Volts
Forward Voltage @ $I_F = 2.0 mA$	V_F	V_f	0.62	0.70	Volts
Forward Voltage @ $I_F = 10 mA$	V_F	V_f	0.70	0.81	Volts
Forward Voltage @ $I_F = 20 mA$	V_F	V_f	0.74	0.88	Volts
Reverse Leakage Current @ $V_R = 50 V$	I_R			0.05(50 @ 150 $^\circ C$)	μA
Breakdown Voltage @ $I_R = 5.0 \mu A$	PIV		75		Volts
Capacitance @ $V_R = 0 V, f = 1 MHz$	C_T			2.0	pF
Reverse Recovery Time (note 1)	t_{rr}			4.0	nSecs
Reverse Recovery Time (note 2)	t_{rr}			2.0	nSec

Note 1: Per Method 4031-A with $I_F = I_R = 10 mA, R_L = 100 Ohms, C = 3 Pf.$ *Unless Otherwise Specified

Note2: Per Method 4031-A with $I_F = I_R = 10 mA, R_r = 6 Volts, R_l=100 ohms.$



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