

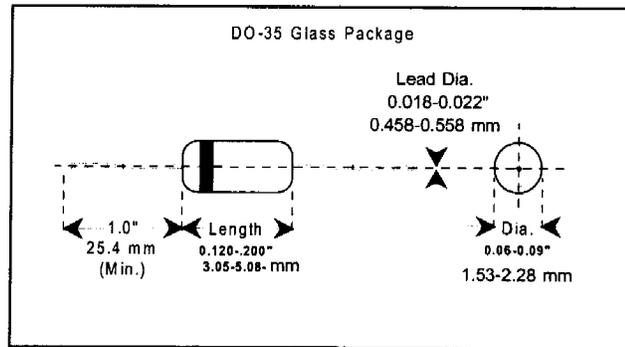
1N645 – 1N649

1N645-1 – 1N649-1

Silicon Rectifier DO35 package

Features

- Six Sigma quality
- Humidity proof glass
- Metallurgically bonded
- Thermally matched system
- No thermal fatigue
- High surge capability
- Sigma Bond™ plated contacts
- 100% guaranteed solderability
- (DO-213AA) SMD MELF commercial (LL) and MIL (UR-1) types available



Absolute Maximum Ratings	Symbol	Value	Unit
Power Dissipation at 3/8" from the body, $T_L = 75^\circ\text{C}$	P_{tot}	600	mWatts
Average Forward Rectified Current at $T_L = 75^\circ\text{C}$	I_{AV}	400	mAmps
Operating and Storage Temperature Range	$T_{O\&S}$	-65 to 175	$^\circ\text{C}$
Thermal Impedance	$Z_{\theta JX}$	35	$^\circ\text{C/W}$

Detail Specifications

Type	Reverse Voltage	Breakdown Voltage (MIN.) @ 100 μA (B_V)	Maximum Average Rectified Current		Forward Voltage Drop (V_F) @ $I_F = 400\text{mA}$ (MAX.)	Maximum Reverse Leakage Current		Maximum Surge Current (I_{FSM}) (NOTE 1)	Typical Junction Capacitance @ -12V (C_J)
	(V_R) Volts	Volts	(I_O) 25 $^\circ\text{C}$ Amps	(I_O) 150 $^\circ\text{C}$ Amps	Volts	(I_R) @ V_R 25 $^\circ\text{C}$ μA	(I_R) @ V_R 100 $^\circ\text{C}$ μA	Amps	pF
1N645,-1	225	275	0.4	0.15	1.0	0.2	15	3	9
1N646,-1	300	360	0.4	0.15	1.0	0.2	15	3	9
1N647,-1	400	480	0.4	0.15	1.0	0.2	20	3	9
1N648,-1	500	600	0.4	0.15	1.0	0.2	20	3	9
1N649,-1	600	720	0.4	0.15	1.0	0.2	25	3	9

Note 1: Surge Current @ $T_A = +25^\circ\text{C}$ to $+150^\circ\text{C}$, for 1 Second



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