

Silicon Rectifier Diodes

1N645 to 649
or
1N645-1 to 649-1

DO-35 Glass Package

Use Advantages

Used as a general purpose rectifier in power supplies, or for clipping and steering applications.

High performance alternative to small signal diodes where space does not permit use of power rectifiers.

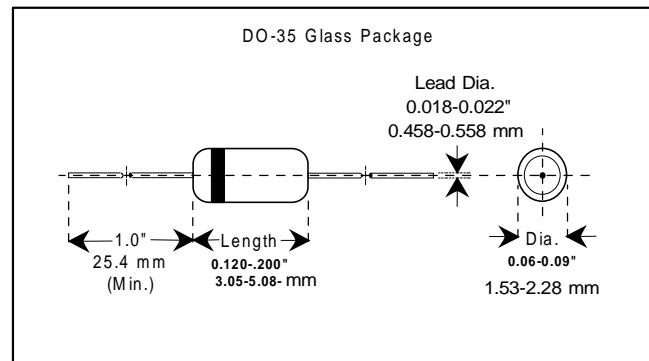
May be used in hostile environments where hermeticity and reliability are important i.e. (Military and Aero/Space). MIL-S- 19500/ 240 approvals.

Available up to JANTXV-1 level.

"S" level screening capability to Source Control Drawings.

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		$T_{\text{O&S}}$	-65 to 175	°C
Thermal Impedance		Z_{qJX}	35	°C/W

Detail Specifications

Type	Reverse Voltage (V_R)	Breakdown Voltage (MIN.) (B_V)	Average Current (I_O) 25°C	Maximum Rectified Current (I_O) 150°C	Forward Voltage Drop (V_F) @ $I_F = 400\text{mA}$ (MIN.) (MAX.)	Reverse Leakage Current (I_R) @ V_R 25°C 100°C	Maximum Reverse Leakage Current (I_R) @ V_R 100°C	Maximum Surge Current (I_{FSM}) (NOTE 1)	Typical Junction Capacitance (C_O) @ -12V
	Volts	Volts	Amps	Amps	Volts	µA	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

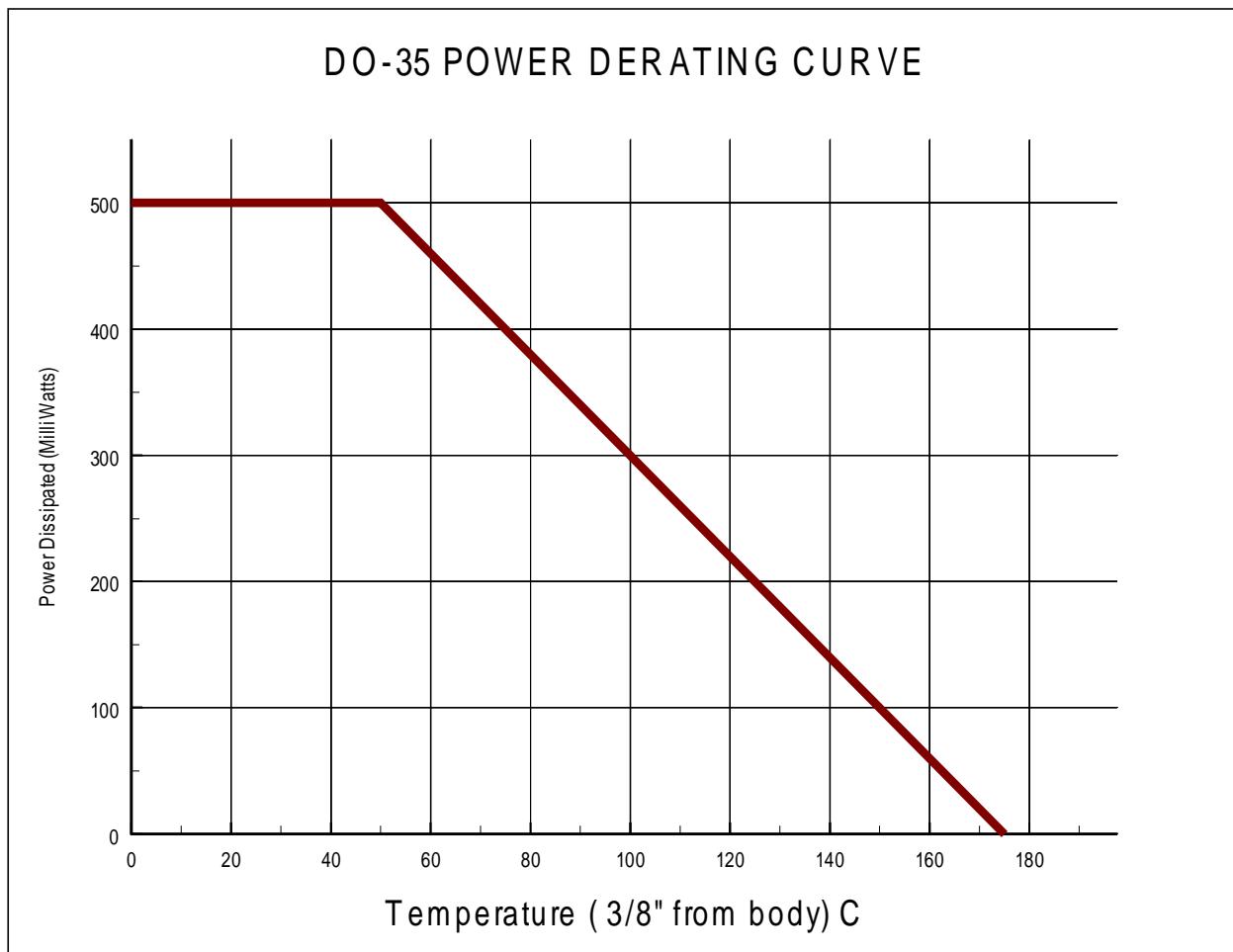
For MELF DO-213AA surface mount package, replace "1N" prefix with "LL" for commercial.

Silicon Rectifier Diodes

1N645-1
thru
1N649-1

DO-35 Glass Package

DO-35 DERATING (175 C Tj)



6 Lake Street - Lawrence, MA 01841

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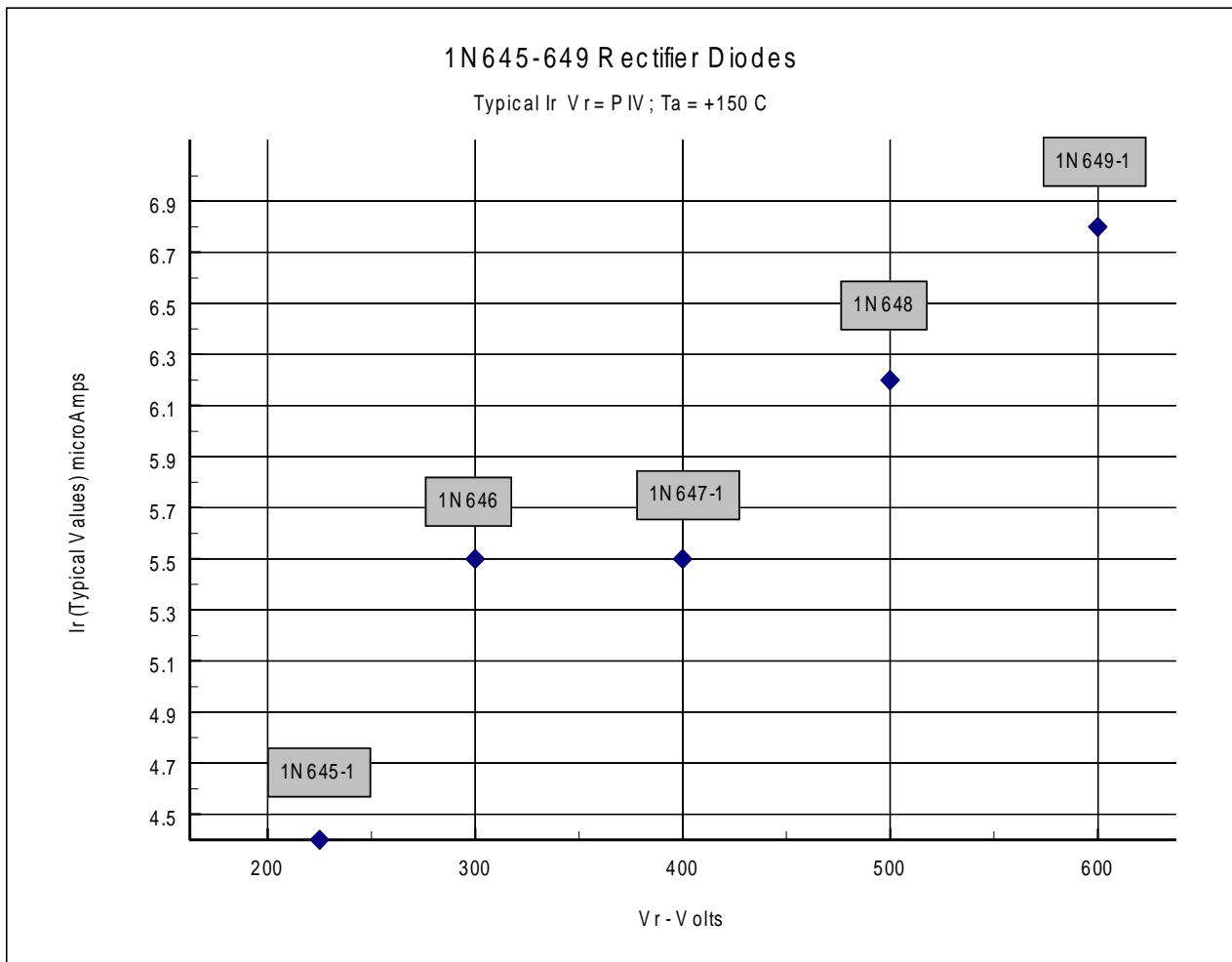
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Silicon Rectifier Diodes

1N645-1 thru 1N649-1



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