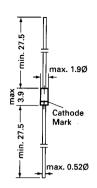
1N 4148

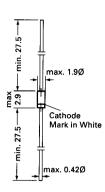
SILICON EPITAXIAL PLANAR DIODE

Silicon Expitaxial Planar Diode

fast switching diode.

This diode is also available in MiniMELF case with the type designation LL4148.





Glass case JEDEC DO-35

Glass case JEDEC DO-34

Dimensions in mm

Absolute Maximum Ratings $(T_a = 25 \text{ }^{\circ}\text{C})$

·	Symbol	Value	Unit
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
Rectified Current (Average) Half Wave Rectification with Resist. Load at T_{amb} = 25 °C and f \geq 50 Hz	I _o	150 1)	
Surge Forward Current at t < 1 s and T _j = 25 °C	FSM	500	mA
Power Dissipation at T _{amb} = 25 °C	P _{tot}	500 ¹⁾	mW
Junction Temperature	T _i	200	°C
Storage Temperature Range	T _s	-65 to + 200	°C

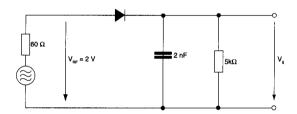




SILICON EPITAXIAL PLANAR DIODE

Characteristics at T_i = 25 °C

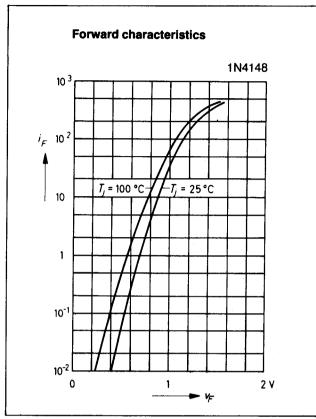
	Symbol	Min.	Тур.	Max.	Unit
Forward Voltage at I _F = 10 mA	V _F	-	-	1	٧
Leakage Current at $V_R = 20 \text{ V}$ at $V_R = 75 \text{ V}$ at $V_R = 20 \text{ V}$, $T_j = 150 ^{\circ}\text{C}$	I _R I _R	- - -	- - -	25 5 50	nA μA μA
Reverse Breakdown Voltage tested with 100 μA Pulses	V _{(BR)R}	100	-	-	V
Capacitance at $V_F = V_R = 0$	C _{tot}	-	-	4	pF
Voltage Rise when Switching ON tested with 50 mA Forward Pulses tp = 0.1 s, Rise Time < 30ns, fp = 5 to 100 kHz	V _{fr}	-	-	2.5	V
Reverse Recovery Time from $I_F = 10$ mA to $I_R = 1$ mA, $V_R = 6$ V, $R_L = 100 \Omega$,	t _{rr}	-	-	4	ns
Thermal Resistance Junction to Ambient Air	R _{thA}	.=	-	0.351)	K/mW
Rectification Efficiency at f = 100 MHz, V _{BF} = 2 V	ην	0.45	-	-	-

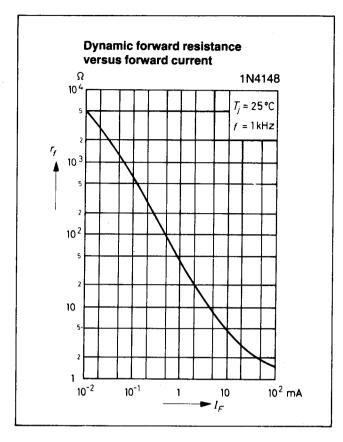


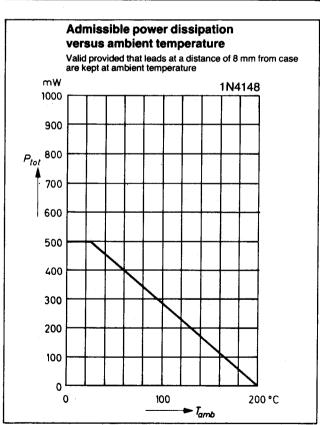
Rectification Efficiency Measurement Circuit

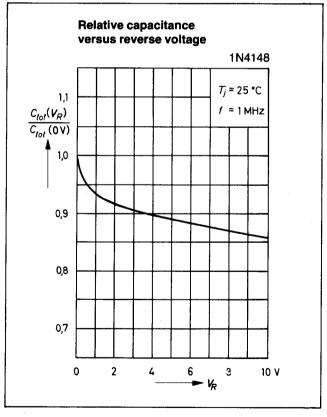








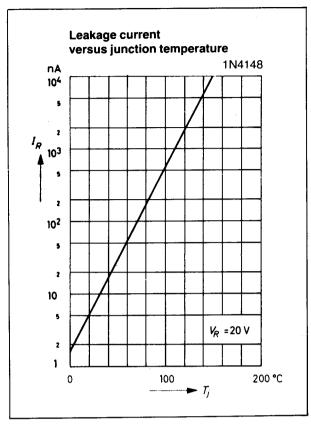


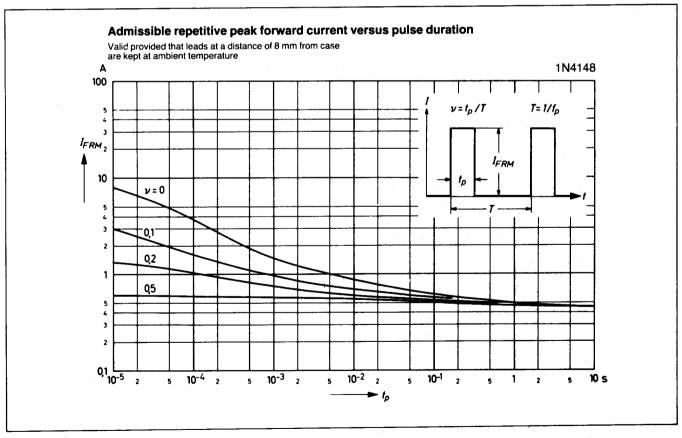
















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