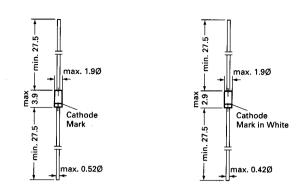
Silicon Expitaxial Planar Diode

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 ($T_a = 25 \text{ °C}$)

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

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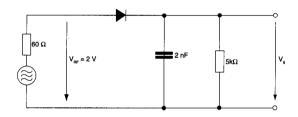




1N 4148 SILICON EPITAXIAL PLANAR DIODE

Characteristics at T_i = 25 °C

Symbol	Min.	Тур.	Max.	Unit
V _F	-	-	1	V
l _R l _R l _R	- - -		25 5 50	nA μA μA
V _{(BR)R}	100	-	-	V
C _{tot}	-	-	4	pF
V _{fr}	-	-	2.5	V
t _{rr}	-	-	4	ns
R _{thA}		-	0.35 ¹⁾	K/mW
ην	0.45	-	-	-
-	I _R I _R V _{(BR)R} C _{tot} V _{fr} R _{thA}	I _R - I _R - I _R - V _{(ВР)R} 100 C _{tot} - V _{(fr} - t _{rr} - R _{thA} -	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$



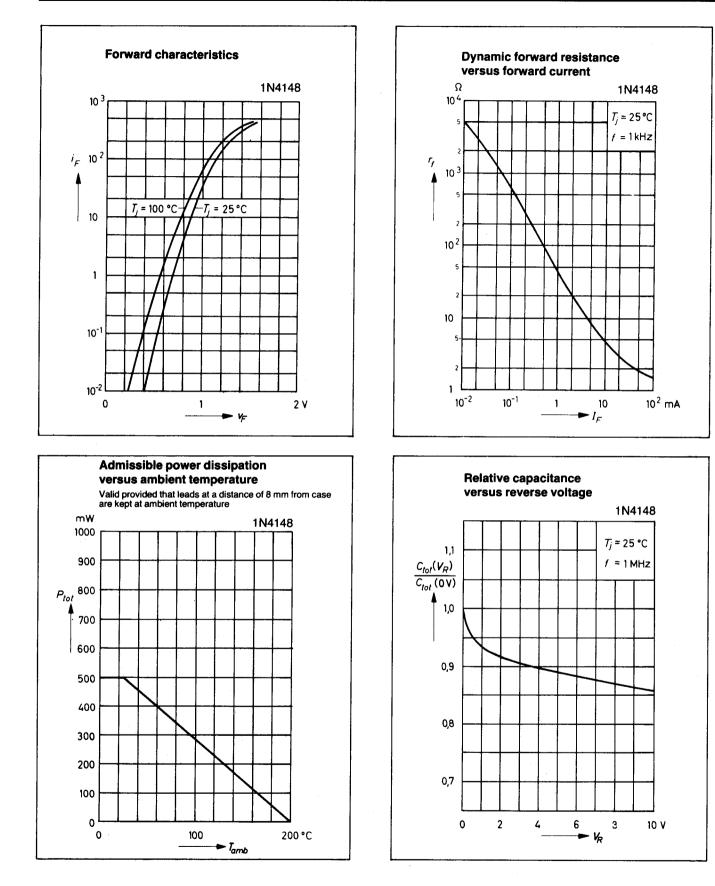
Rectification Efficiency Measurement Circuit







1N 4148 SILICON EPITAXIAL PLANAR DIODE

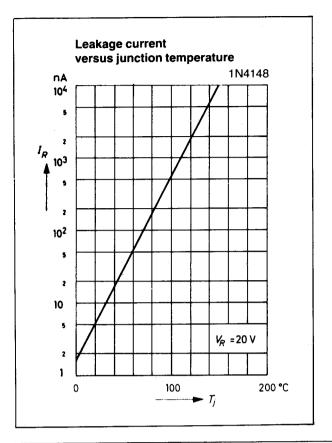


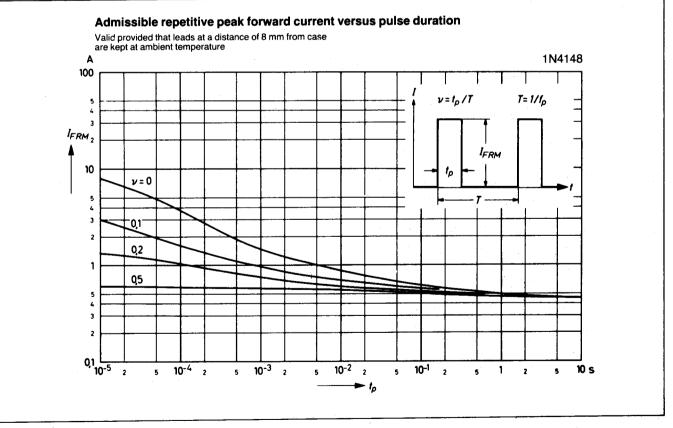


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1N 4148 SILICON EPITAXIAL PLANAR DIODE







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