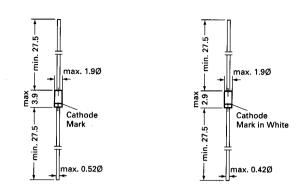
#### Silicon Expitaxial Planar Diode

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

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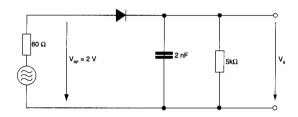




## 1N 4148 SILICON EPITAXIAL PLANAR DIODE

Characteristics at T<sub>i</sub> = 25 °C

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



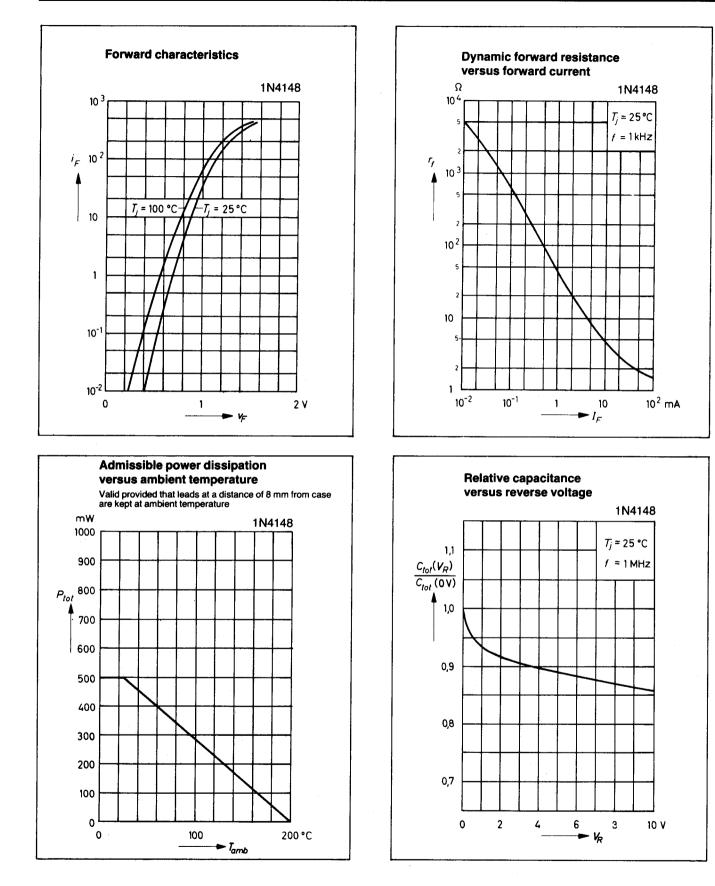
**Rectification Efficiency Measurement Circuit** 







### 1N 4148 SILICON EPITAXIAL PLANAR DIODE

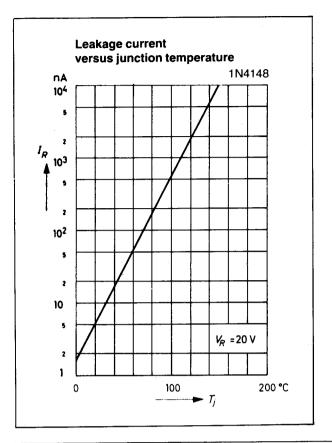


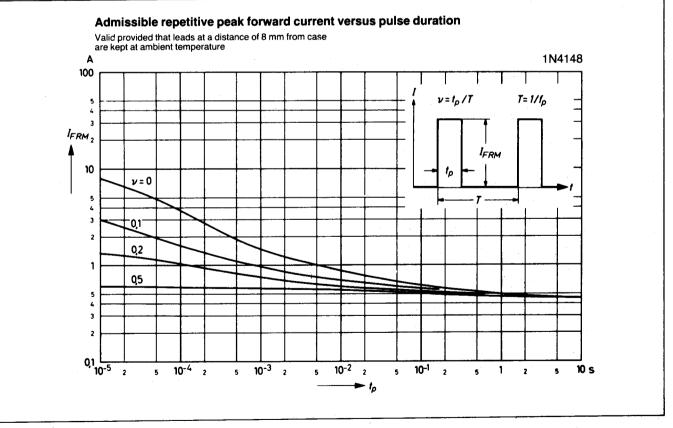


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# 1N 4148 SILICON EPITAXIAL PLANAR DIODE







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