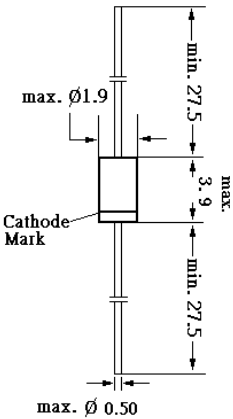


1N4448

SILICON EPITAXIAL PLANAR DIODE

Fast switching diode

This diode is also available in MiniMELF case with the type designation LL4448.

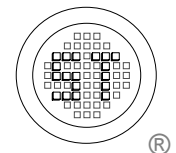


Glass case JEDEC DO-35
Dimensions in mm

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

	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 $T_{amb} = 25^{\circ}\text{C}$ and $f/50\text{ Hz}$	I_O	150 ¹⁾	mA
Surge Forward Current at $t < 1\text{s}$ and $T_j = 25^{\circ}\text{C}$	I_{FSM}	500	mA
Power Dissipation	P_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	200	$^{\circ}\text{C}$
Storage Temperature Range	T_S	-65 to +200	$^{\circ}\text{C}$

¹⁾ Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.



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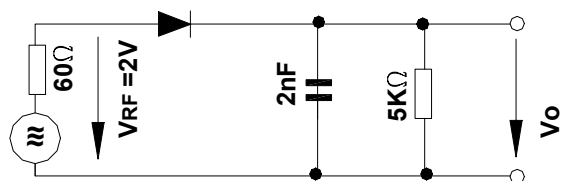
Dated : 31/12/2002

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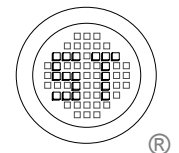
Characteristics at T_j = 25°C

	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at I _F = 5mA	V _F	0.62	-	0.72	V
at I _F = 100mA	V _F	-	-	1	V
Leakage Current at V _R = 20V	I _R	-	-	25	nA
at V _R = 75V	I _R	-	-	5	μA
at V _R = 20V, T _j = 150°C	I _R	-	-	50	μA
Reverse Breakdown Voltage tested with 100μA Pulses	V _{(BR)R}	100	-	-	V
Capacitance at V _F = V _R = 0	C _{tot}	-	-	4	pF
Reverse Recovery Time from I _F = 10mA to I _R = 1mA, V _R = 6V, R _L = 100Ω	t _{rr}	-	-	4	ns
Thermal Resistance Junction to Ambient Air	R _{thA}	-	-	0.35 ¹⁾	K/mW
Rectification Efficiency at f = 100MHz, V _{RF} = 2V	η _v	0.45	-	-	-

¹⁾ Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.



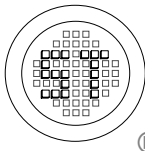
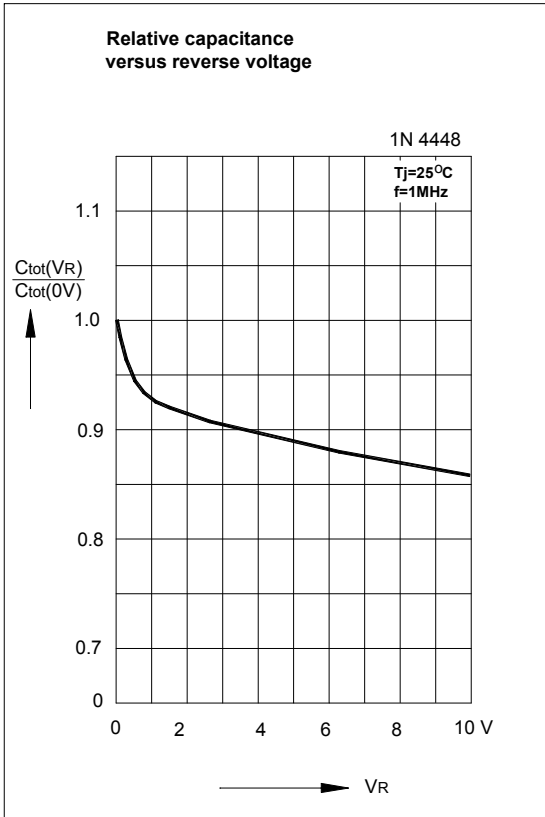
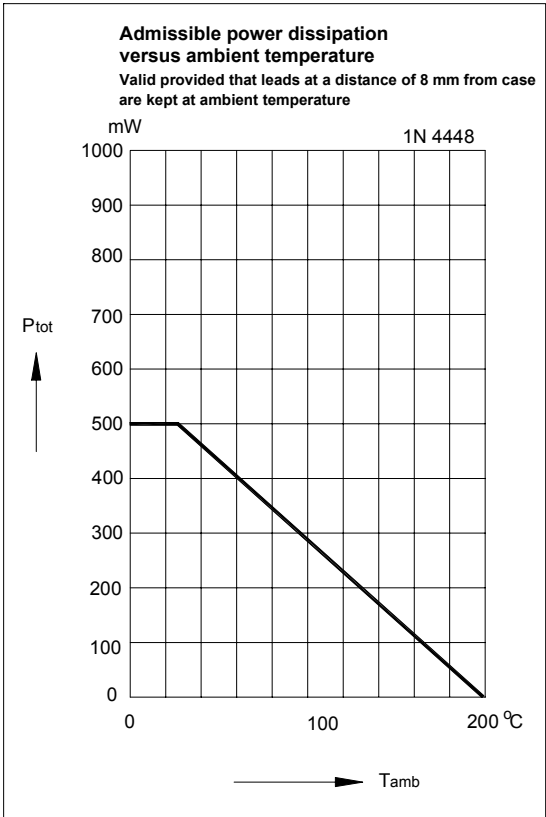
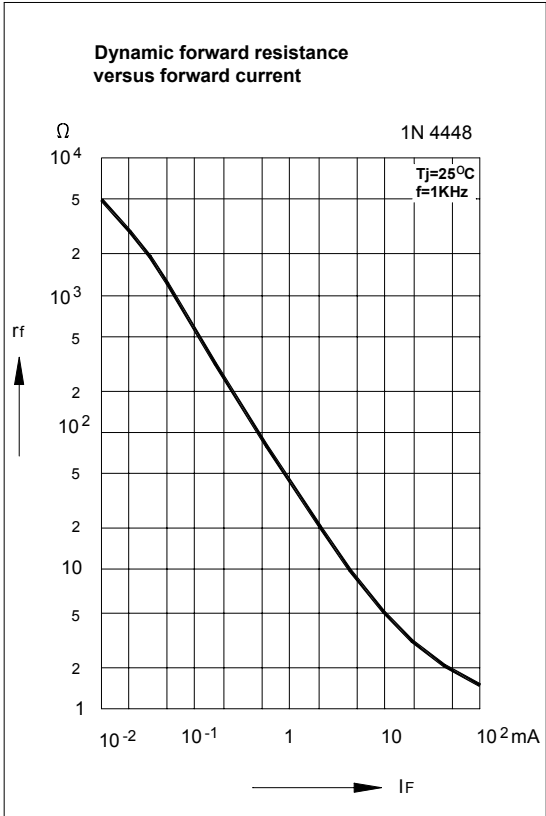
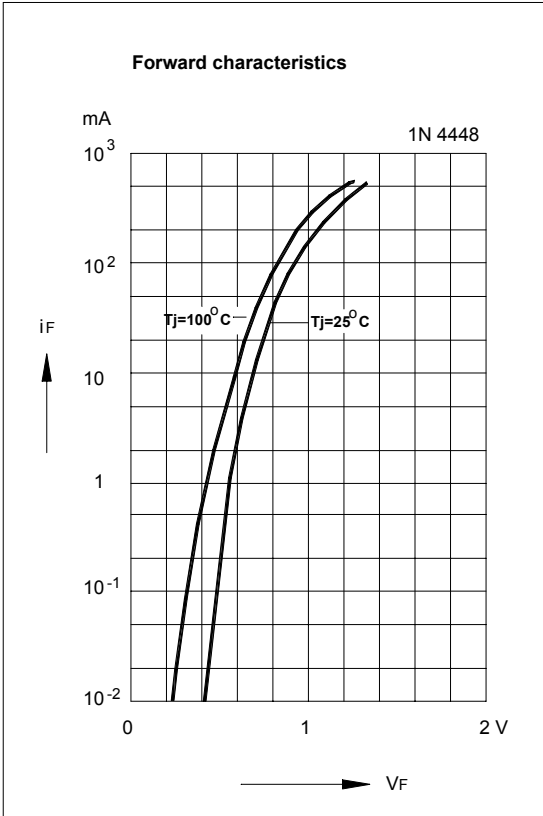
Rectification Efficiency Measurement Circuit



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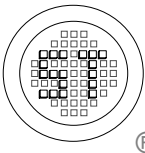
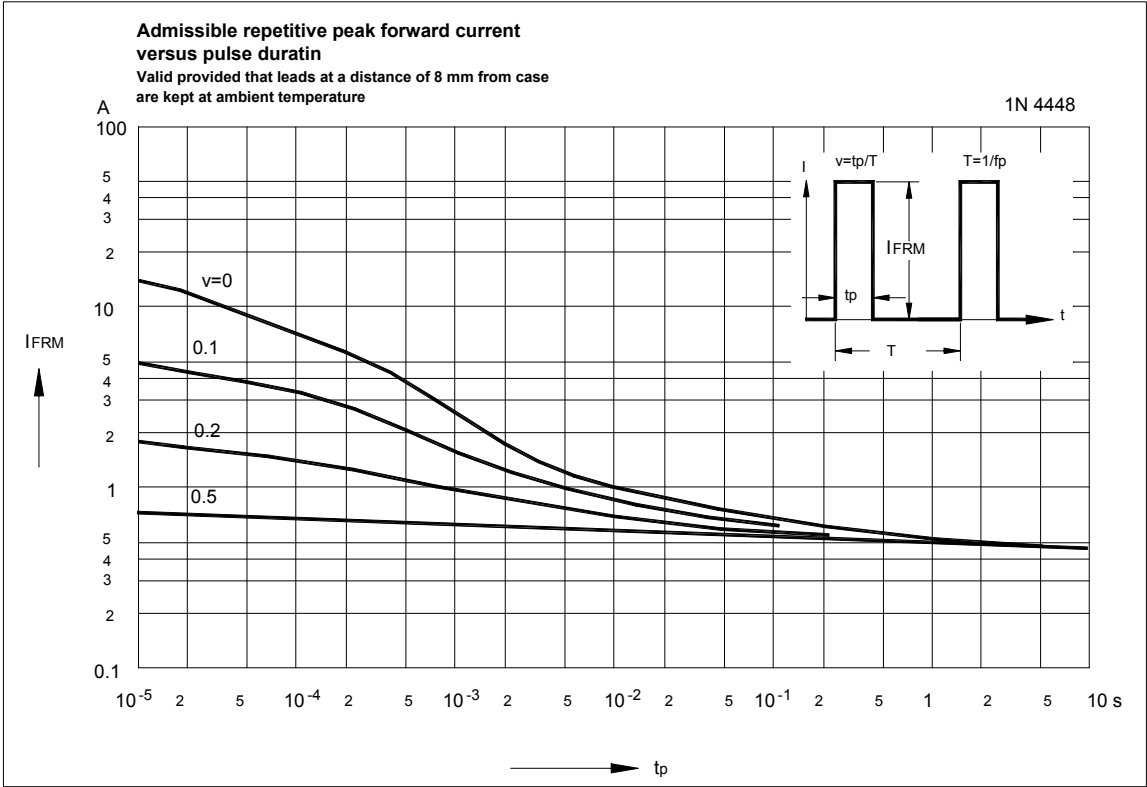
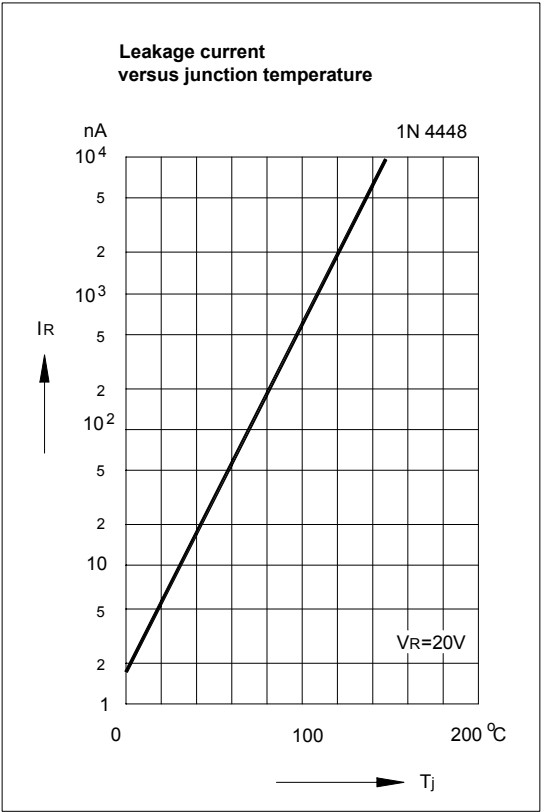
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