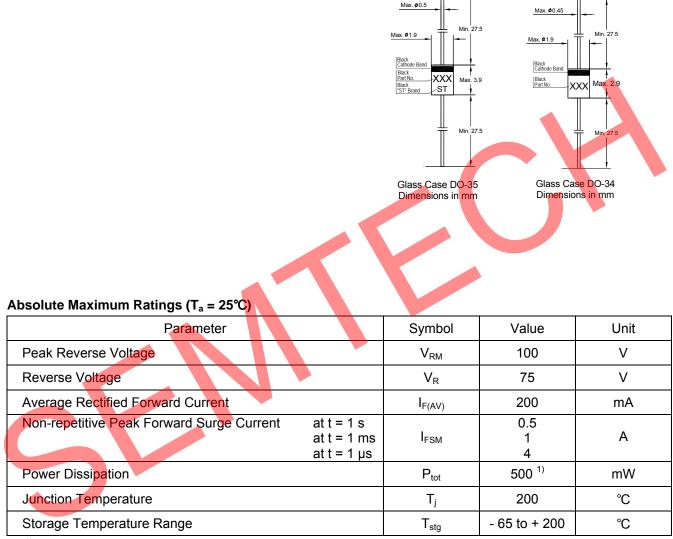
## Silicon Epitaxial Planar Switching Diode

## Applications

High-speed switching

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



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



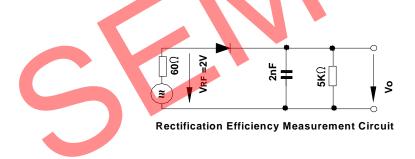




## Characteristics at T<sub>a</sub> = 25°C

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \ \mu A$ at $I_R = 5 \ \mu A$	V <sub>(BR)R</sub> V <sub>(BR)R</sub>	100 75	-	V V
Forward Voltage at I <sub>F</sub> = 10 mA	V <sub>F</sub>	-	1	V
Leakage Current at $V_R = 20 V$ at $V_R = 75 V$ at $V_R = 20 V$ , $T_j = 150^{\circ}C$	I <sub>R</sub> I <sub>R</sub> I <sub>R</sub>	- -	25 5 50	nA μA μA
Capacitance at V <sub>R</sub> = 0, f = 1 MHz	C <sub>tot</sub>	-	4	pF
Voltage Rise when Switching ON tested with 50 mA Forward Pulses tp = 0.1 s, Rise Time < 30 ns, fp = 5 to 100 KHz	V <sub>fr</sub>	C	2.5	V
Reverse Recovery Time at $I_F$ = 10 mA to $I_R$ = 1 mA, Irr = 0.1 x $I_{R, V_R}$ = 6 V, $R_L$ = 100 $\Omega$	t <sub>rr</sub>	-	4	ns
Thermal Resistance Junction to Ambient Air	R <sub>thA</sub>	-	0.35 <sup>1)</sup>	K/mW
Rectification Efficiency at f = 100 MHz, V <sub>RF</sub> = 2 V	ηv	0.45	-	-

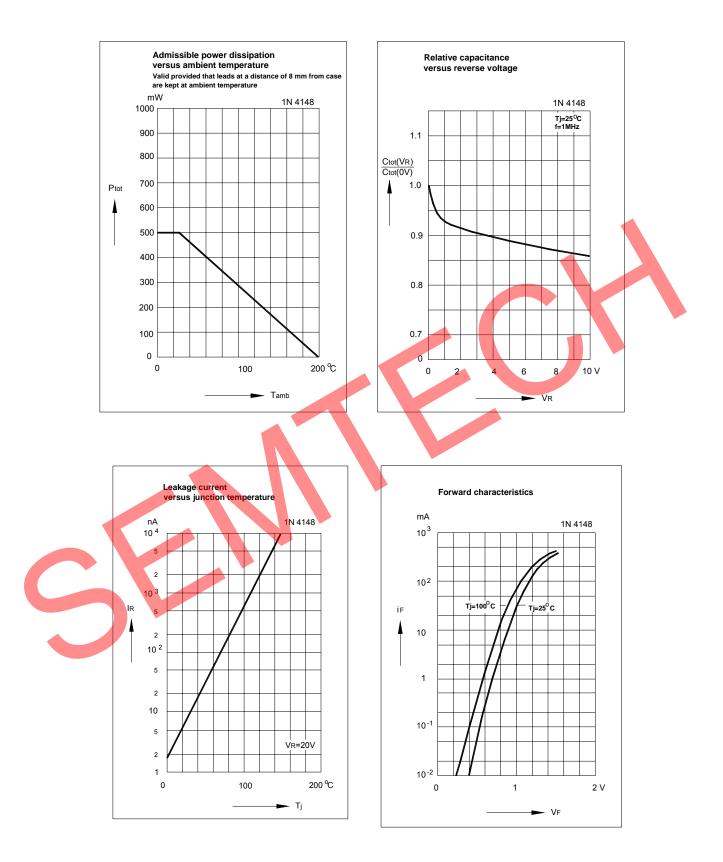
<sup>1)</sup> Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.

















## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by Semtech manufacturer:

Other Similar products are found below :

MMBD3004S-13-F RD0306T-H DSE010-TR-E BAV17-TR BAV19-TR 1N3611 NTE156A NTE574 NTE6244 1SS181-TP 1SS193,LF 1SS400CST2RA SDAA13 SHN2D02FUTW1T1G LS4151GS08 1N4449 1N456A 1N4934-E3/73 1N914B 1N914BTR 1SS226-TP RFUH20TB3S D291S45T BAV300-TR BAW56DWQ-7-F BAW75-TAP MM230L-CAA IDW40E65D1 JAN1N3600 LL4151-GS18 053684A SMMSD4148T3G 707803H NSVDAN222T1G CDSZC01100-HF LL4150-M-08 BAV199E6433HTMA1 BAS28-7 BAW56HDW-13 BAS28 TR VS-HFA04SD60STR-M3 NSVM1MA152WKT1G RGP30D-E3/73 BAV99TQ-13-F BAS21DWA-7 NTE6250 NTE582-4 NTE582-6 MMDB30-E28X VS-HFA04SD60SL-M3