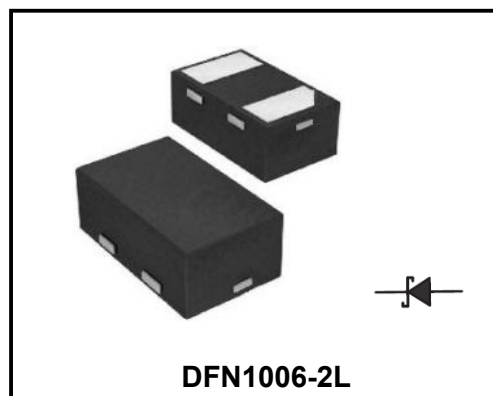


Silicon Epitaxial Planar Switching Diode

FEATURES

- ♦High voltage
- ♦Small package
- ♦Small capacitance



Marking Code

1N4148DB	A6
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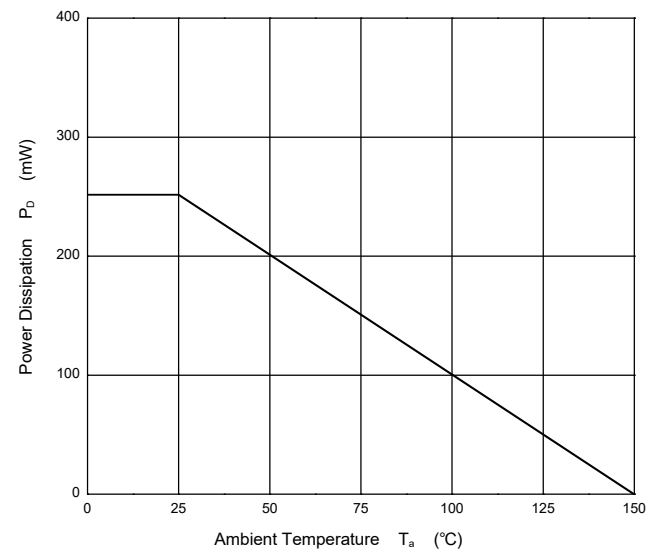
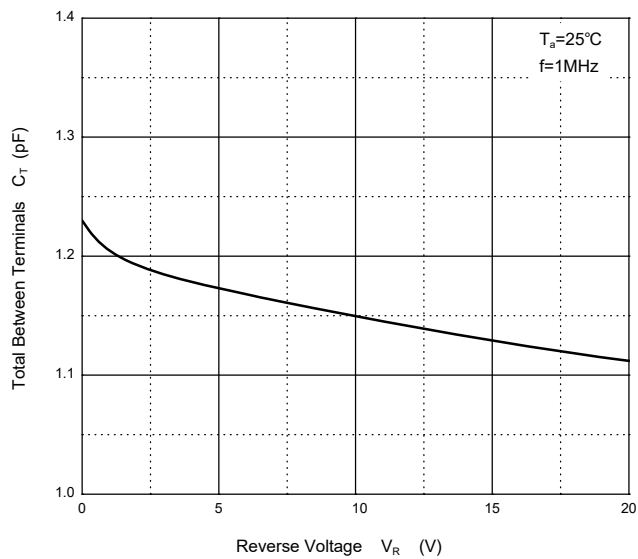
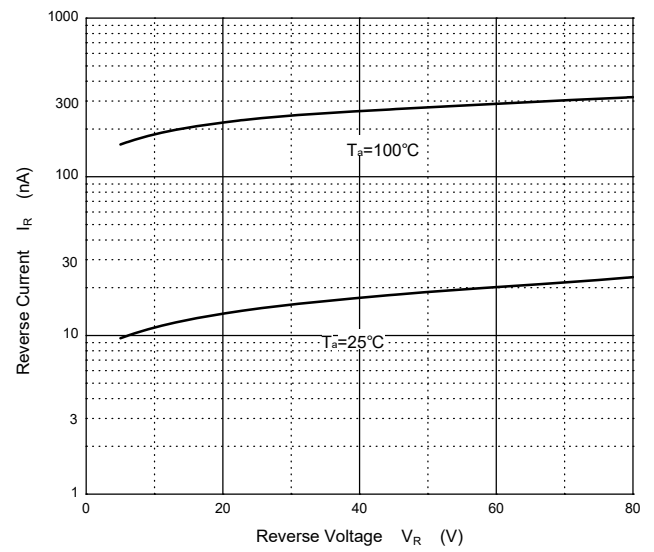
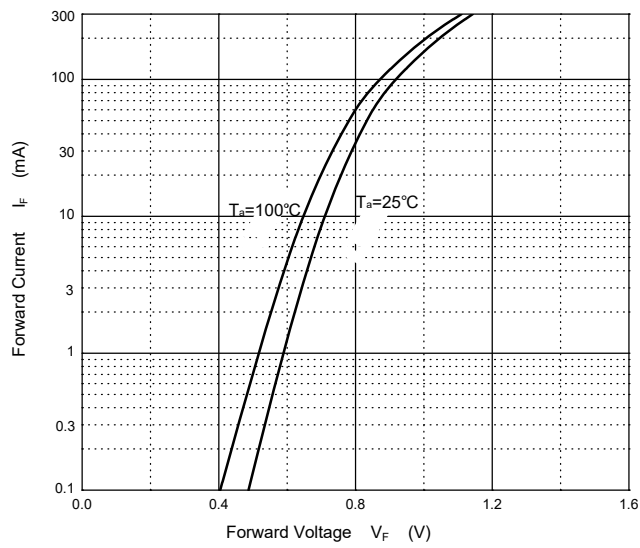
Absolute Maximum Ratings at T_A=25°C

Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V _{RRM}	100	V
Reverse Voltage	V _R	75	V
Average Rectified Forward Current	I _{F(AV)}	200	mA
DC Forward Current	I _{FM}	600	mA
Repetitive Peak Forward Current	I _{FRM}	700	mA
Non-repetitive Peak Forward Surge Current at t = 1 s at t = 1 μs	I _{FSM}	1	A
		4	
Power Dissipation	P _D	250	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

Characteristics at T_A=25°C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 10 mA	V _F	--	0.85	V
Reverse Breakdown Voltage at I _R = 100 μA at I _R = 5 μA	V _{(BR)R}	100 75	- -	V
Reverse Current at V _R = 20 V at V _R = 75 V at V _R = 20 V, at T _A = 150 °C	I _R	- - -	25 1 50	nA μA μA
Typical Junction Capacitance at V _R = 0 V, f = 1 MHz	C _j	-	4	pF
Maximum Reverse Recovery Time at I _F = 10 mA, V _R = 6 V, I _{RR} = 1 mA, R _L = 100 Ω	T _{rr}	-	4	nS

Typical Characteristic Curves



Ordering information

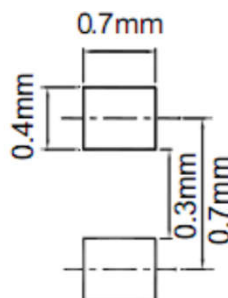
Package	Packing Description	Packing Quantity
DFN1006-2L	Tape/Reel, 7" reel	10000PCS/Reel 400000PCS/Carton

Package Dimensions

DFN1006-2L

Dim.	Millimeter(mm)		Inches	
	Min.	Max.	Min.	Max.
A	0.350	0.450	0.014	0.018
D	0.550	0.650	0.022	0.026
E	0.950	1.050	0.037	0.041
D1	0.420	0.520	0.017	0.020
E1	0.550	0.650	0.022	0.026
L	0.270	0.370	0.011	0.015
L1	-	0.100	-	0.004

The recommended mounting pad size



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