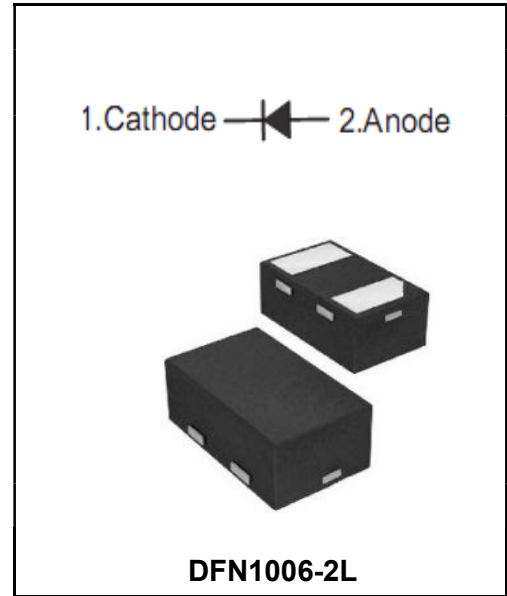


**Silicon Epitaxial Planar Switching Diode**

**Features**

- High voltage
- Small package
- Small capacitance



**Marking Code**

BAS16LD	A6
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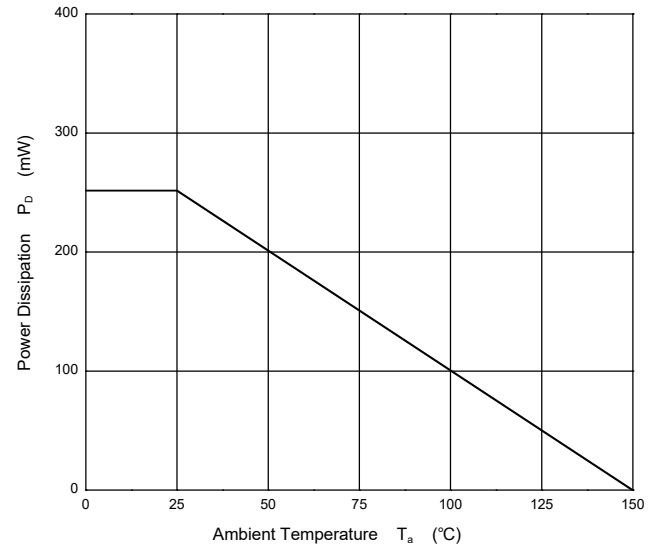
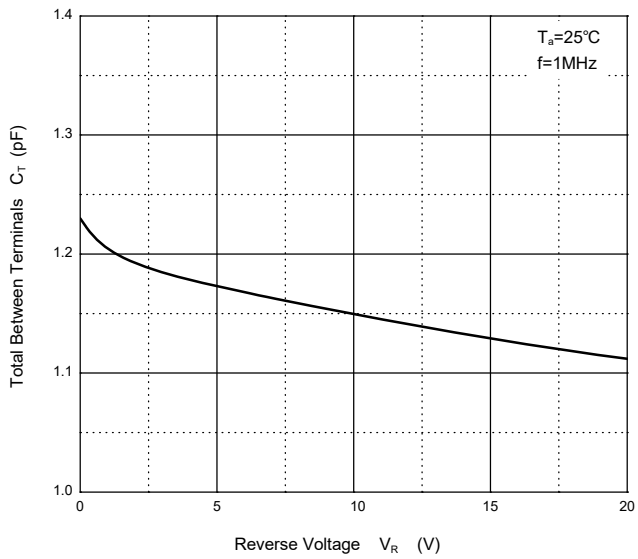
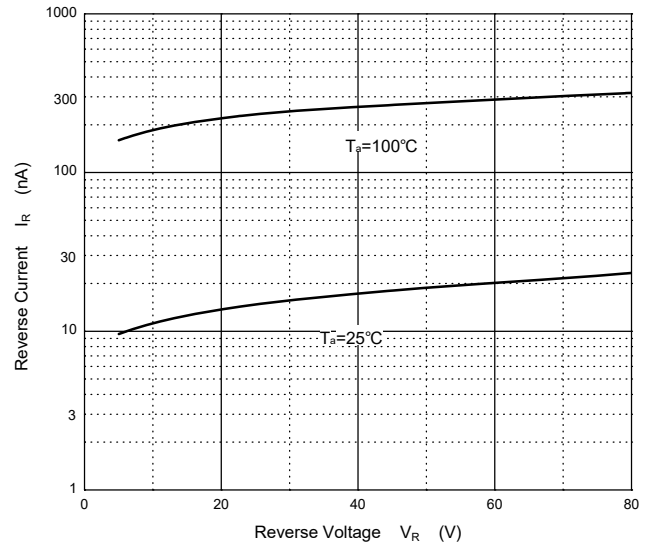
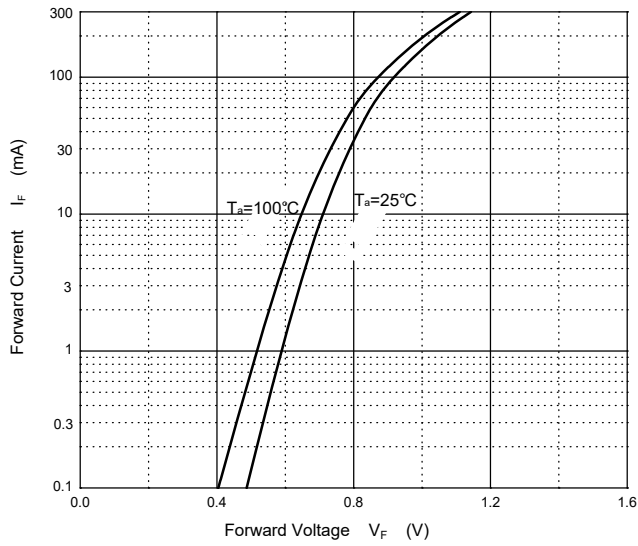
**Absolute maximum ratings (Ta=25°C unless otherwise noted)**

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	$I_{FSM}$	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(TA = 25 °C unless otherwise specified)**

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 10 \text{ mA}$	$V_F$	--	0.85	V
Reverse Breakdown Voltage at $I_R = 100 \text{ } \mu\text{A}$ at $I_R = 5 \text{ } \mu\text{A}$	$V_{(BR)R}$	100 75	-- --	V
Reverse Current at $V_R = 20 \text{ V}$ at $V_R = 75 \text{ V}$ at $V_R = 20 \text{ V}$ , at $T_A = 150 \text{ } ^\circ\text{C}$	$I_R$	-- -- --	25 1 50	nA $\mu\text{A}$ $\mu\text{A}$
Typical Junction Capacitance at $V_R = 0 \text{ V}$ , $f = 1 \text{ MHz}$	$C_j$	--	4	pF
Maximum Reverse Recovery Time at $I_F = 10 \text{ mA}$ , $V_R = 6 \text{ V}$ , $I_{RR} = 1 \text{ mA}$ , $R_L = 100 \text{ } \Omega$	$T_{rr}$	--	4	nS

**Typical Characteristics**



**Ordering information**

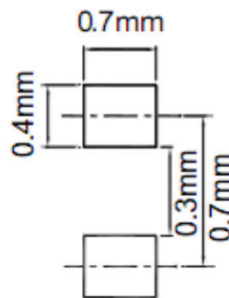
Package	Packing Description	Packing Quantity
DFN1006-2L	Tape/Reel,7"reel	10000PCS/Reel 400000PCS/Carton

**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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