

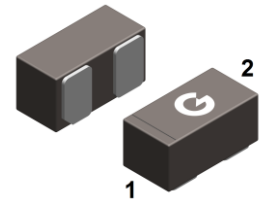
Features

- Medium speed current applications
- Very low leakage current
- Surface mount package ideally suited for automatic insertion
- RoHS compliant with Halogen-free

HF

Mechanical Data

- Case: DFN0603-2L
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208



DFN0603-2L

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
BAS116LP3	DFN0603-2L	10000 pcs / Tape & Reel	JV

Maximum Ratings (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}	85	V
Working Peak Reverse Voltage	V _{RWM}	85	V
DC Blocking Voltage	V _R	85	V
RMS Reverse Voltage	V _{R(RMS)}	60	V
Forward Continuous Current	I _F	215	mA
Repetitive Peak Forward Current	I _{FRM}	500	mA
Peak Forward Surge Current, t _p = 1μs	I _{FSM}	4	A
Peak Forward Surge Current, t _p = 1ms	I _{FSM}	1	A
Peak Forward Surge Current, t _p = 1s	I _{FSM}	0.5	A
Power Dissipation	P _D	200	mW
Operating Junction Temperature Range	T _J	-55 ~ +150	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

Thermal Characteristics

Parameter	Symbol	Value	Unit
Thermal Resistance Junction-to-Air	R _{θJA}	625	°C/W

Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\mu\text{A}$	85	-	-	V
Forward Voltage	V_F	$I_F = 1\text{mA}$	-	-	0.9	V
		$I_F = 10\text{mA}$	-	-	1	V
		$I_F = 50\text{mA}$	-	-	1.1	V
		$I_F = 150\text{mA}$	-	-	1.25	V
Maximum Peak Reverse Current	I_R	$V_R = 75\text{V}, T_J = 25^\circ\text{C}$	-	-	5	nA
		$V_R = 75\text{V}, T_J = 125^\circ\text{C}$	-	-	80	nA
Total Capacitance	C_J	$V_R = 0\text{V}, f = 1.0\text{MHz}$	-	-	5	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10\text{mA}$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$	-	-	3	μs

Ratings and Characteristics Curves (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

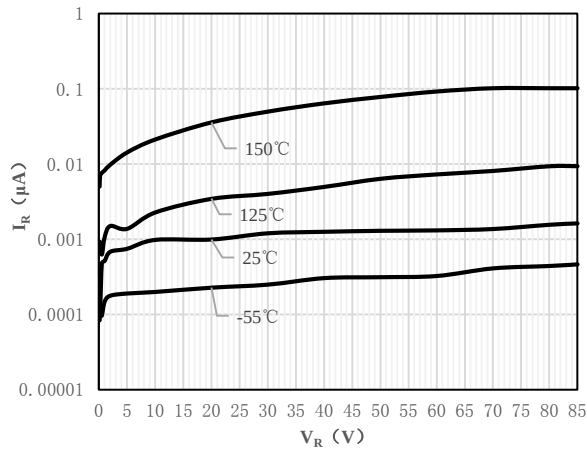


Fig 1 Typical Reverse Characteristic

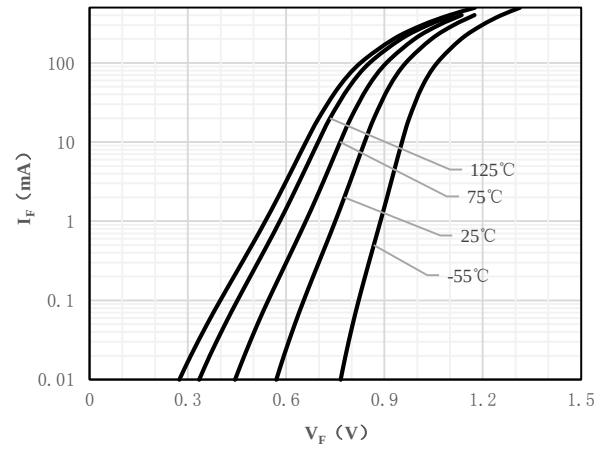


Fig 2 Typical Forward Characteristics

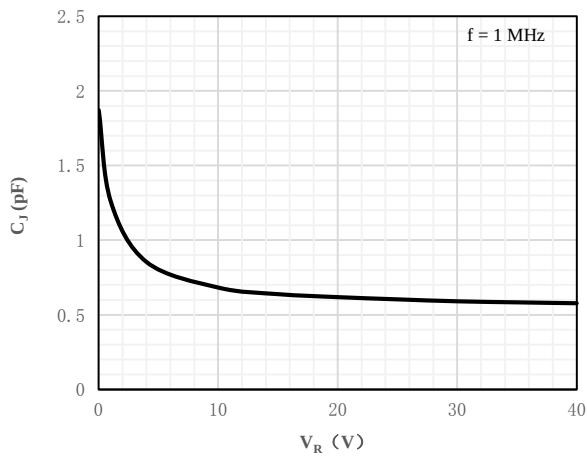


Fig 3 Capacitance vs. Reverse Voltage

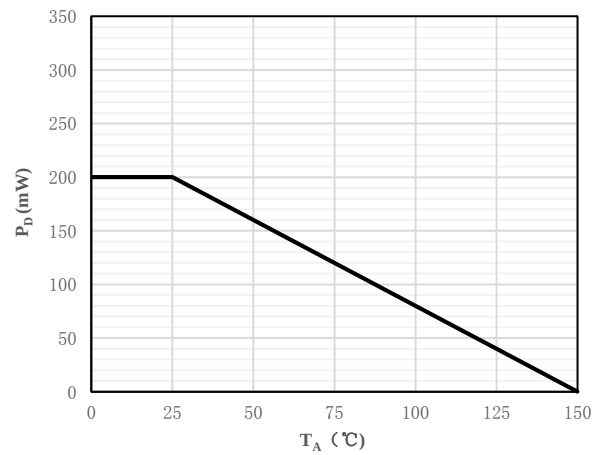
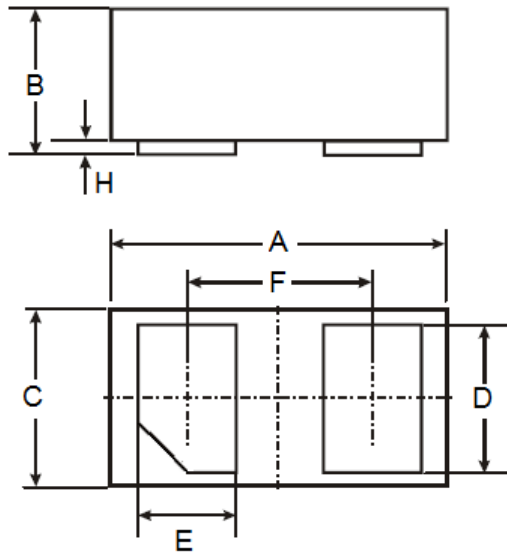


Fig 4 Power Derating Curve

Package Outline Dimensions (Unit: mm)



DFN0603-2L			
Dimension	Min.	Typ.	Max.
A	0.595	0.620	0.645
B	0.270	0.300	0.350
C	0.295	0.320	0.345
D	0.190	0.240	0.290
E	0.140	0.190	0.240
F	-	0.355	-
H	0	0.020	0.030

Mounting Pad Layout (Unit: mm)

DFN0603-2L

