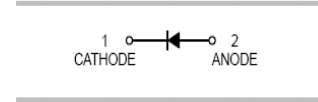


Features

- High reliability
- Ultra-thin 0603 package H= 0.23mm(typ)

Mechanical Data

- Case: X1DFN0603-2L
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208



X1DFN0603-2L

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
RB521LP2	X1DFN0603-2L	10000pcs / Tape & Reel	C

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

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	30	V
Working Peak Reverse Voltage	V _{RWM}	30	V
DC Reverse Voltage	V _R	30	V
RMS Reverse Voltage	V _{RMS}	21	V
Maximum Average Forward Output Current	I _{F(AV)}	100	mA
Peak Forward Surge Current (8.3ms single half sine-wave)	I _{FSM}	0.5	A

Thermal Characteristics

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	100	mW
Thermal Resistance Junction-to-Air	R _{θJA}	1250	°C/W
Operating Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C



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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 1\text{mA}$	-	-	0.35	V
		$I_F = 10\text{mA}$	-	-	0.46	V
Maximum Peak Reverse Current	I_R	$V_R = 10\text{V}$	-	-	5	μA
		$V_R = 30\text{V}$	-	-	10	μA

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

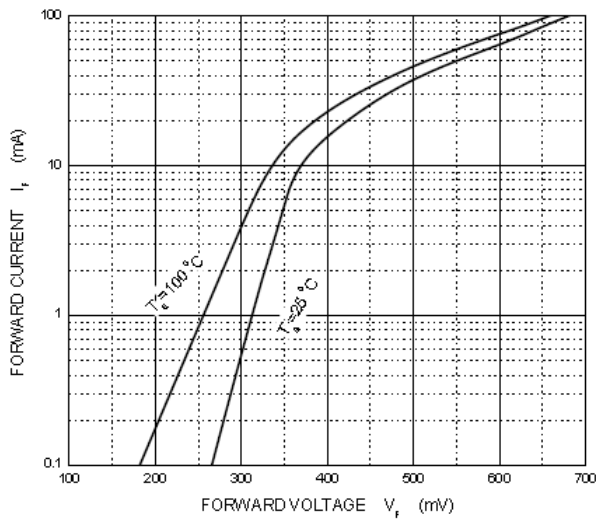


Fig 1 Forward Characteristics

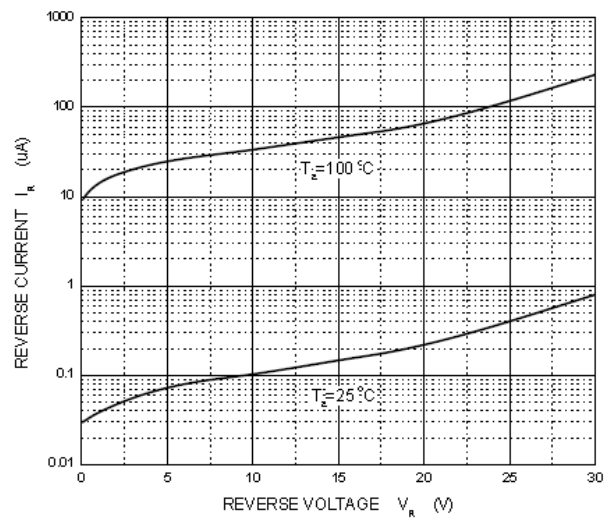


Fig 2 Typical Reverse Characteristic

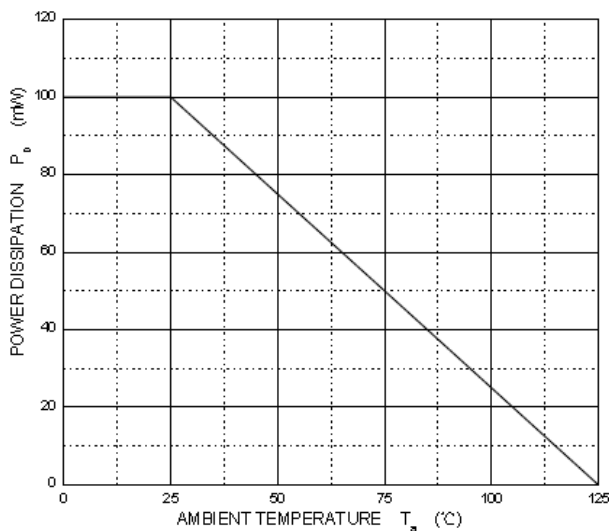
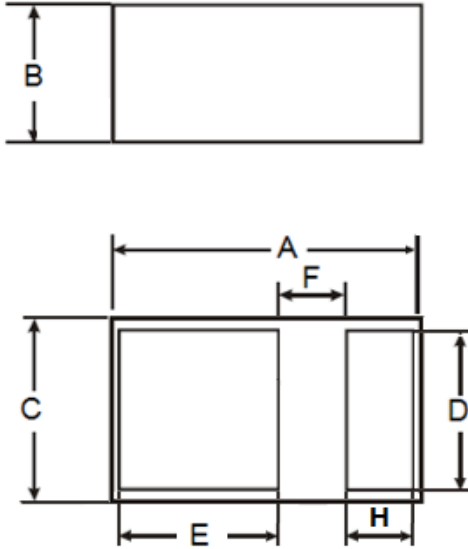


Fig 3 Power Derating Curve



Package Outline Dimensions (Unit: mm)



X1DFN0603-2L			
Dimension	Min.	Typ.	Max.
A	0.595	0.620	0.645
B	0.200	0.230	0.260
C	0.295	0.320	0.345
D	0.210	0.260	0.310
E	0.210	0.260	0.310
F	0.10	0.15	0.20
H	0.05	0.15	0.25

Mounting Pad Layout (Unit: mm)

X1DFN0603-2L

