

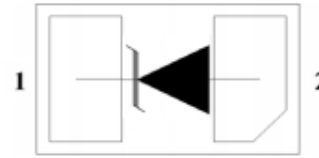
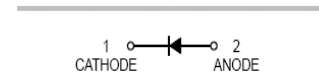
### Features

- High reliability
- Low reverse current and low forward voltage

HF

### Mechanical Data

- Case: DFN1610-2L
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin-Plated Leads, Solderability-per MIL-STD-202, Method 208



DFN1610-2L

### Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
B5819DH	DFN1610-2L	10000 pcs / Tape & Reel	SL

### Maximum Ratings (@ T<sub>A</sub> = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	V
DC Reverse Voltage	V <sub>R</sub>	40	V
Maximum Average Forward Output Current	I <sub>F(AV)</sub>	1	A
Peak Forward Surge Current (8.3ms single half sine-wave)	I <sub>FSM</sub>	20	A

### Thermal Characteristics

Parameter	Symbol	Value	Unit
Thermal Resistance Junction-to-Air <sup>*1</sup>	R <sub>θJA</sub>	284	°C/W
Thermal Resistance Junction-to-Lead <sup>*1</sup>	R <sub>θJL</sub>	282	°C/W
Thermal Resistance Junction-to-Case <sup>*1</sup>	R <sub>θJC</sub>	155	°C/W
Operating junction Temperature	T <sub>J</sub>	-55 ~ +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 ~ +150	°C

Note 1: The data tested by surface mounted on a 15mm \* 15mm \* 1mm FR4-epoxy P.C.B

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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage <sup>*1</sup>	$V_F$	$I_F = 1\text{A}$	-	-	0.55	V
		$I_F = 3\text{A}$	-	-	0.90	V
Maximum Peak Reverse Current <sup>*2</sup>	$I_R$	$V_R = 40\text{V}$	-	-	5	$\mu\text{A}$
Junction Capacitance	$C_J$	$V_R = 4\text{V}, f = 1\text{MHz}$	-	-	40	pF

Notes:

1. Pulse width  $\leq 380\mu\text{s}$ , Duty cycle  $< 2\%$
2. pulse test,  $t_p \leq 5\text{ms}$

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

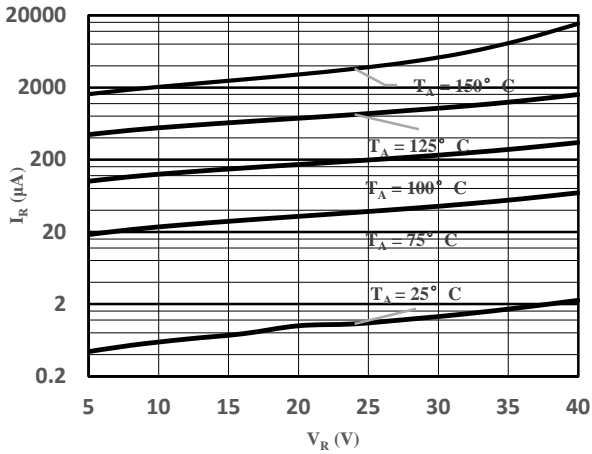


Fig 1 Typical Reverse Characteristic

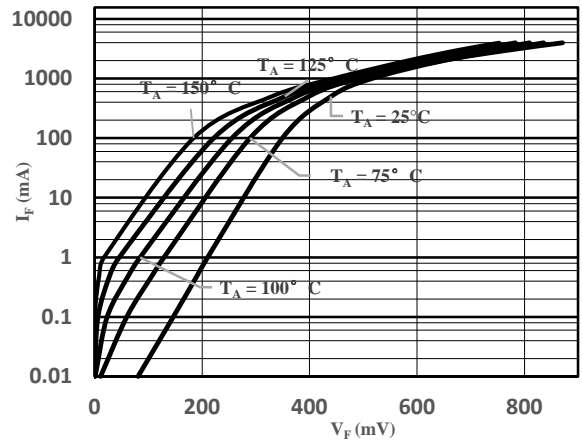


Fig 2 Typical Forward Characteristics

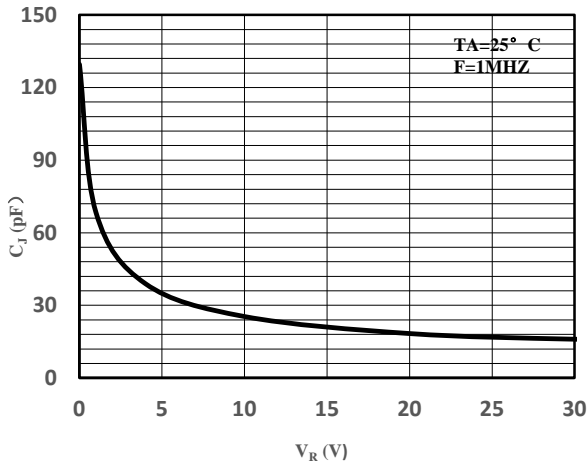


Fig 3 Capacitance Characteristics

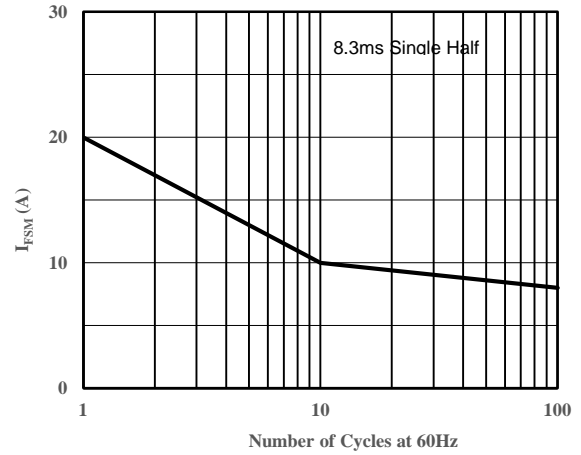


Fig 4 Maximum Non-Repetitive Peak Surge Current

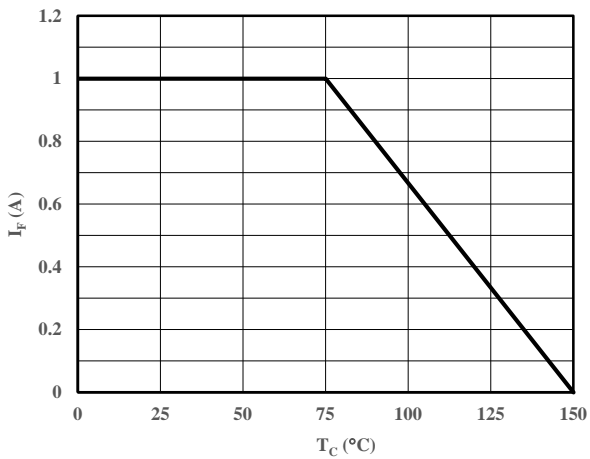
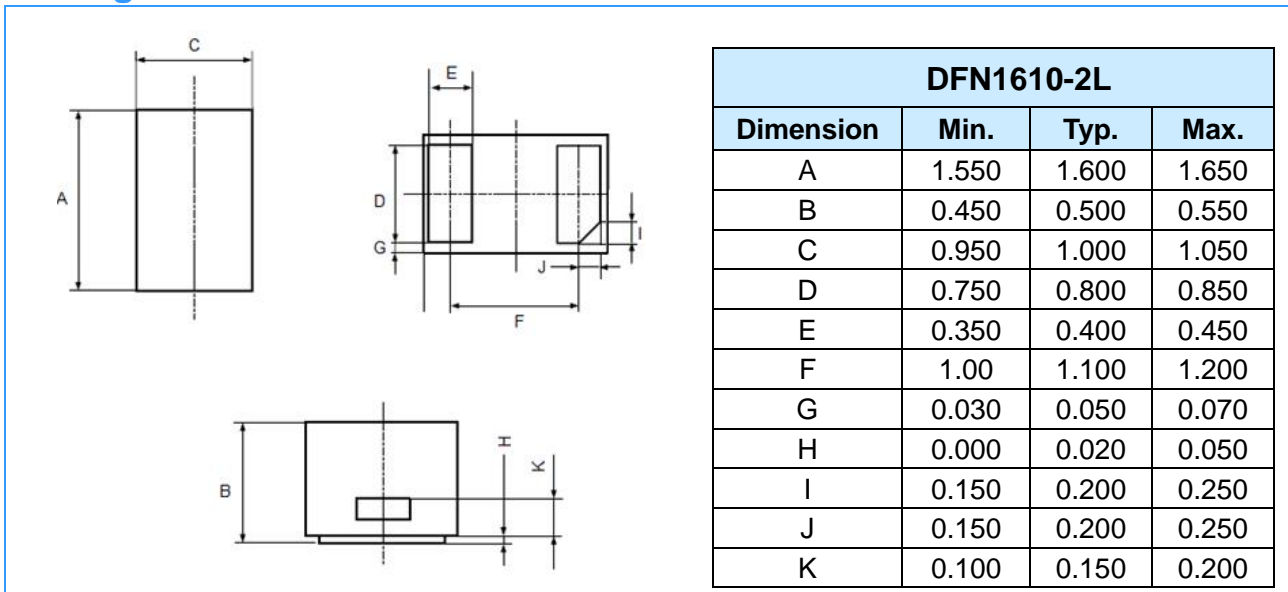
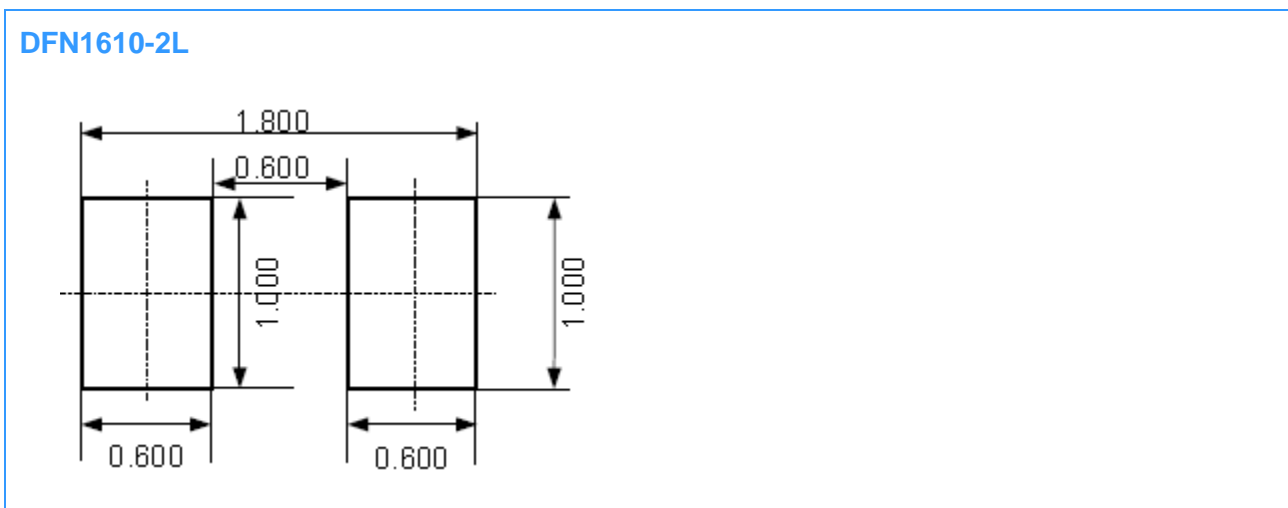


Fig 5 Forward Derating Curve

Package Outline Dimensions (Unit: mm)



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