

BSD0130

Schottky Barrier Diode

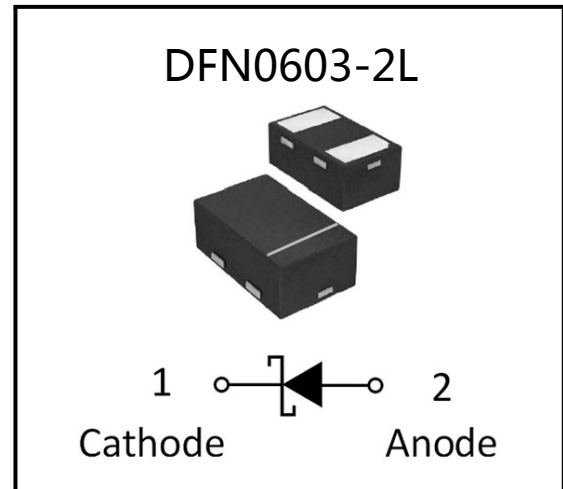
Features

- Low forward voltage drop
- Low Current Leakage
- High current capability
- High reliability

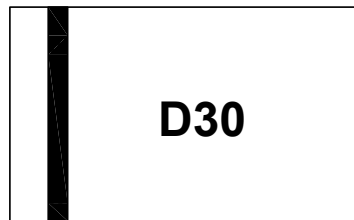
General Description

- Case: molded plastic
- Polarity: Color band denotes cathode
- Package: DFN0603-2L Plastic Package

Package



Marking



Ordering information

Order code	Package	Marking	Baseqty	Delivery mode
BSD0130	DFN0603-2L	D30	10K	Tape and reel

Maximum Ratings@T_A=25°C unless otherwise noted

Symbol	Parameter	Limit	Unit
V _{RRM}	Maximum Recurrent Peak Reverse Voltage	30	V
I _O	Maximum average forward rectified current	0.1	A
I _{FSM}	Non-repetitive peak forward surge current 8.3ms singlehalf sine-wave	0.5	A
P _{tot}	Total Power Dissipation	100	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	1000	°C/W
T _J	Operation Junction Temperature Range	-40 to +125	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C



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

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V_{BR}	Reverse breakdown voltage	$I_R=50\mu\text{A}$	30	—	—	V
I_R	Reverse voltage leakage current	$V_R=10\text{V}$	—	—	0.5	μA
		$V_R=30\text{V}$	—	—	20	μA
V_F	Forward voltage	$I_F=10\text{mA}$	—	—	0.38	V
		$I_F=100\text{mA}$	—	—	0.80	



Typical Performance Characteristics ($T_J = 25^\circ\text{C}$, unless otherwise noted)

Figure 1: Forward Characteristics

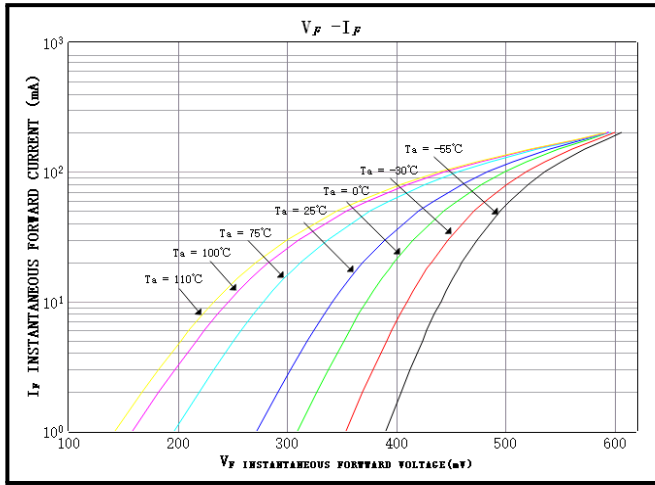


Figure 2: Reverse Characteristics

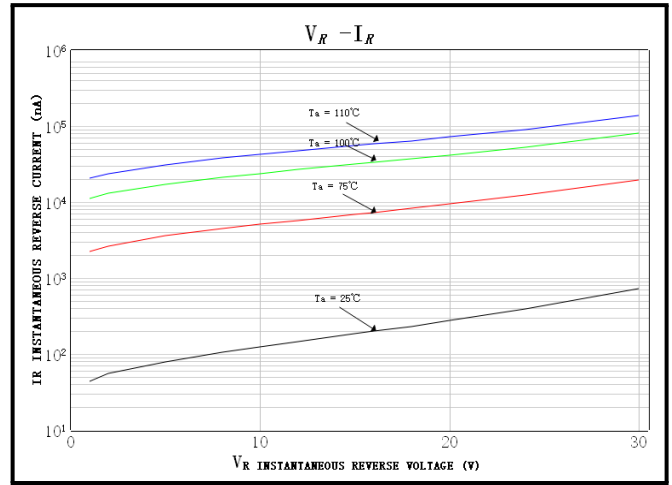
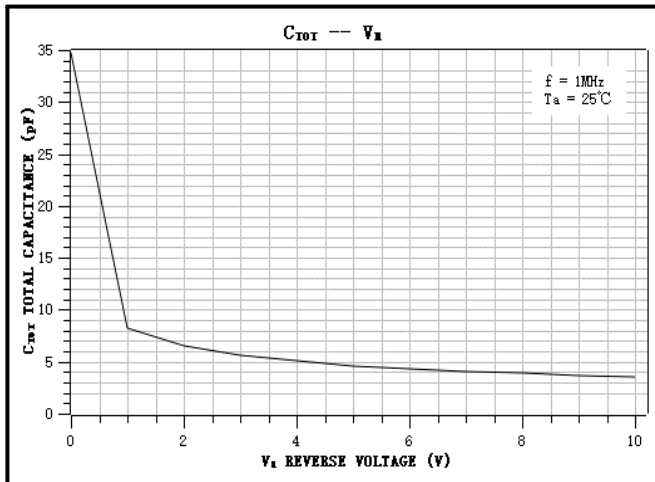


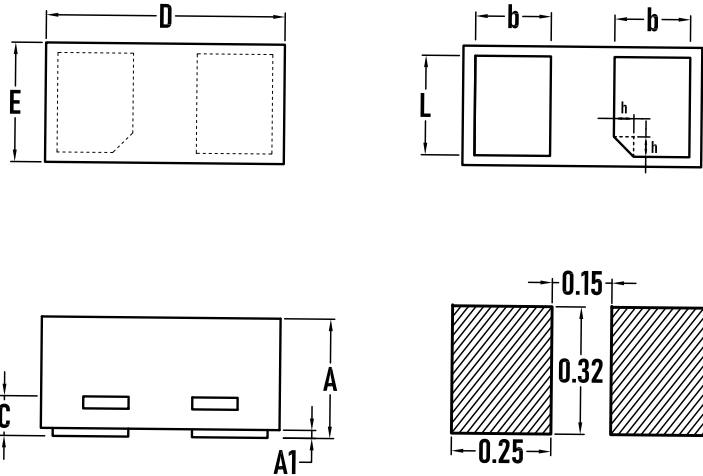
Figure 3: Capacitance Characteristics



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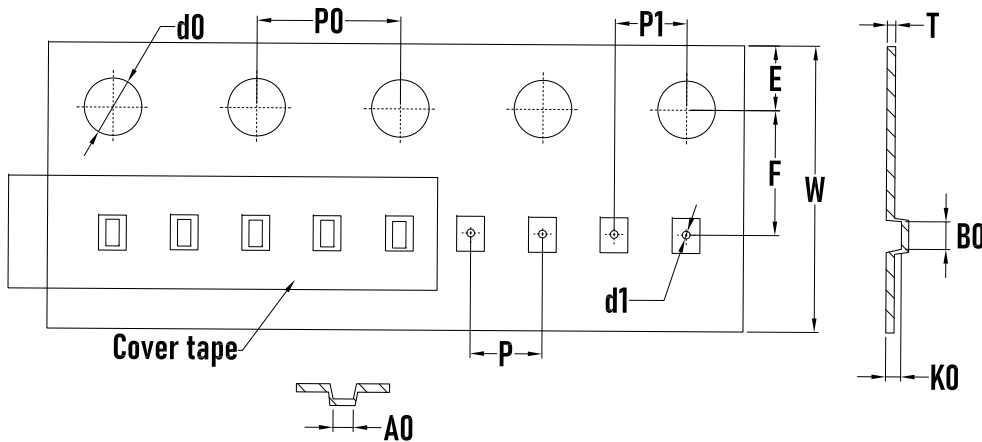
ESD Protection Diode

Outline Drawing – DFN0603-2L



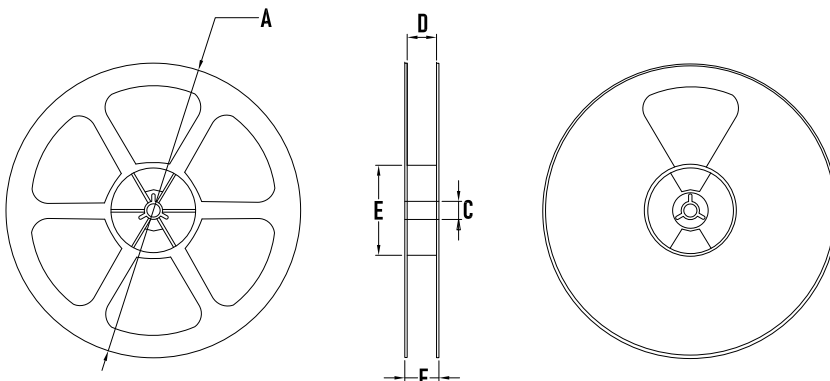
SYMBOL	MILLIMETER		
	MIN.	Typ.	MAX.
A	0.28	0.30	0.32
A1	0.00	0.02	0.05
C	0.05	0.10	0.15
D	0.55	0.60	0.65
E	0.25	0.30	0.35
b	0.14	0.19	0.24
L	0.20	0.25	0.30
h	—	0.05	0.10

Packaging Tape - DFN0603-2L



SYMBOL	MILLIMETER
A0	0.39±0.03
B0	0.70±0.03
d0	1.55±0.05
d1	0.20±0.05
E	1.75±0.10
F	3.50±0.04
K0	0.37 ^{+0.03} _{-0.02}
P	2.00±0.10
P0	4.00±0.10
P1	2.00±0.05
W	8.00±0.10
T	0.18±0.03

Packaging Reel



SYMBOL	MILLIMETER
A	178±2
C	13.0 ^{+0.5} _{-0.2}
D	9.5
E	55±5
F	14.4 max.
Quantity	10000PCS

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Specifications are subject to change without notice.

Please refer to <http://www.born-tw.com> for current information.

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