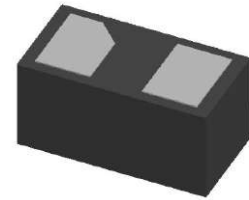


FEATURES:

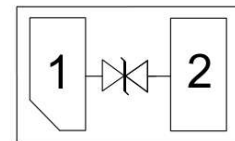
- ✧ Protects one bi-directional I/O line
- ✧ Low clamping voltage
- ✧ Low operating voltage: 5V
- ✧ ROHS compliant



DFN0603

MAIN APPLICATIONS

- ✧ Cell Phone Handsets and Accessories
- ✧ Personal Digital Assistants (PDA's)
- ✧ Notebooks, Desktops, and Servers
- ✧ Portable Instrumentation
- ✧ Pagers
- ✧ Microprocessor based equipment



PIN Configuration

PROTECTION SOLUTION TO MEET

- ✧ IEC61000-4-2 (ESD) $\pm 12\text{kV}$ (air), $\pm 12\text{kV}$ (contact)
- ✧ IEC61000-4-5 (Lighting) 4.0A (8/20us)

MECHANICAL CHARACTERISTICS

- ✧ Package DFN0603
- ✧ Molding Compound Flammability Rating : UL 94V-O
- ✧ Quantity Per Reel : 10,000pcs
- ✧ Lead Finish : Lead Free
- ✧ Marking code: 5B

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$, RH=45%-75%, unless otherwise noted)

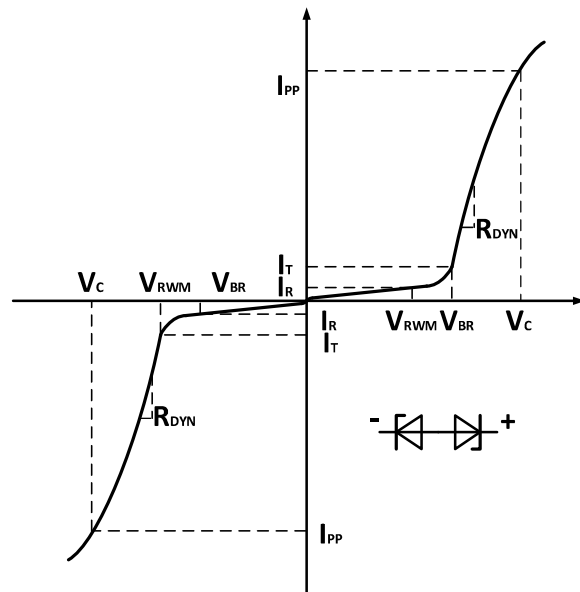
Parameter	Symbol	Value	Unit
Storage temperature range	T_{stg}	-55 to +150	$^\circ\text{C}$
Operating junction temperature range	T_j	-55 to +125	$^\circ\text{C}$
Lead Soldering Temperature	T_L	260 (10 sec.)	$^\circ\text{C}$
Peak pulse power dissipation on 8/20 μs waveform	P_{PP}	88	W
ESD per IEC 61000-4-2 (Air)	V_{ESD}	+/- 12	kV
ESD per IEC 61000-4-2 (Contact)		+/- 12	

ELECTRICAL CHARACTERISTICS (T_A=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Working Voltage	V _R				5	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	6.0			V
Reverse Leakage Current	I _R	V _R = 5V			1.0	μA
Peak Pulse Current	I _{pp}	t _p = 8/20μs			4.0	A
Clamping Voltage	V _C	I _{PP} = 1.0A, t _p = 8/20μs			13	V
		I _{PP} = 4.0A, t _p = 8/20μs			22	V
Junction Capacitance	C _J	V _R = 0V, f = 1MHz		0.22	0.35	pF

RATINGS AND V-I CHARACTERISTICS CURVES

Symbol	Parameter
V _{RWM}	Reverse Standoff Voltage
I _R	Max Reverse Leakage Current @ V _{RWM}
V _{BR}	Breakdown Voltage @ I _T
I _T	Test Current
V _C	Clamping Voltage @ I _{PP}
I _{PP}	Max Peak Pulse Current
R _{DYN}	Dynamic Resistance
C _J	Junction Capacitance
P _{PP}	Peak Pulse Power



RATINGS AND V-I CHARACTERISTICS CURVES ($T_A=25^\circ\text{C}$, unless otherwise noted)

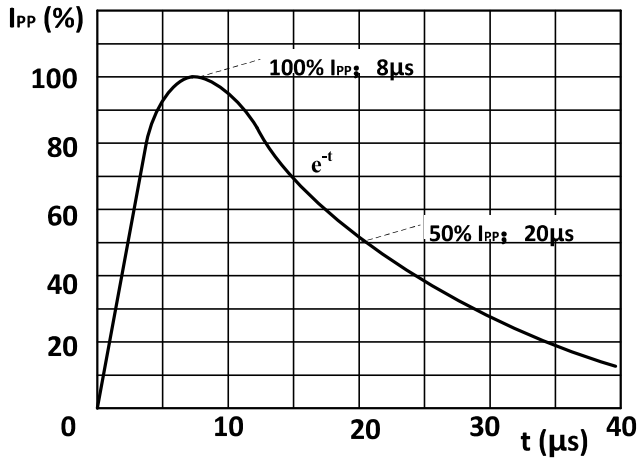


Fig. 1. 8/20 μs pulse waveform according to IEC 61000-4-5 and IEC 61643-321

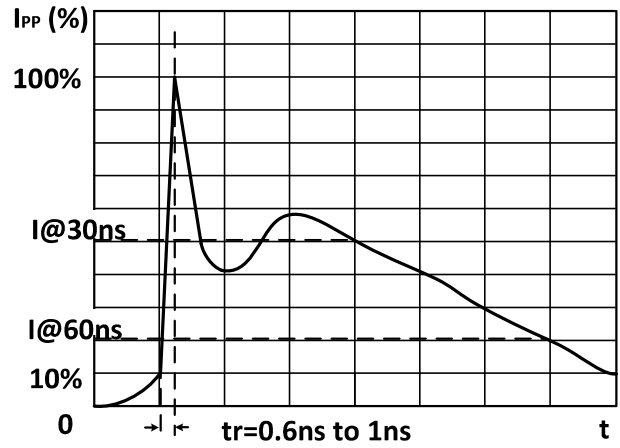


Fig. 2. ESD pulse waveform according to IEC 61000-4-2

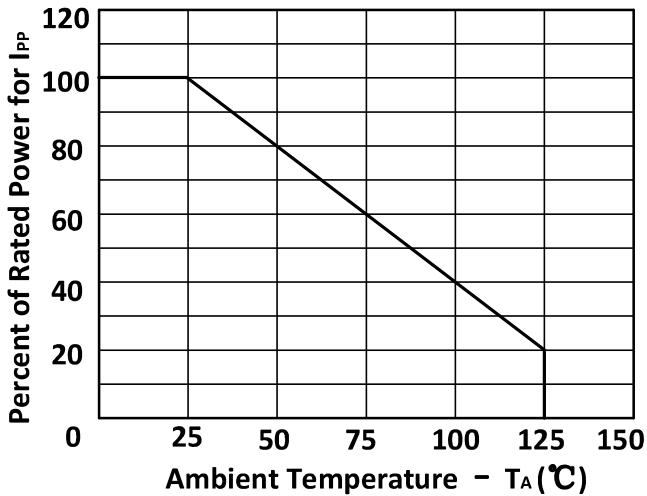


Fig. 3. Power Derating Curve

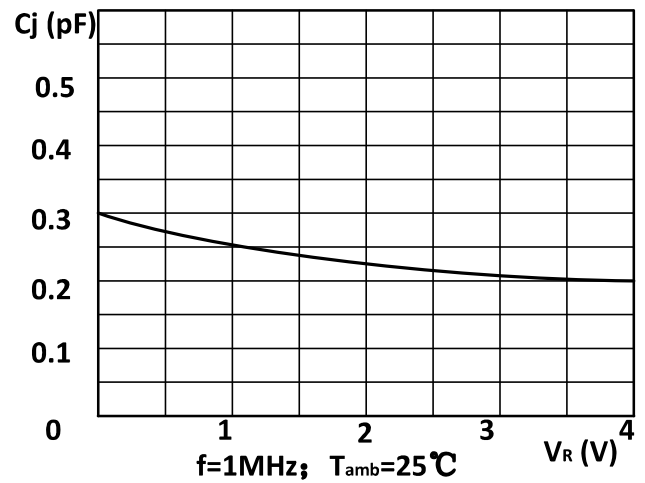
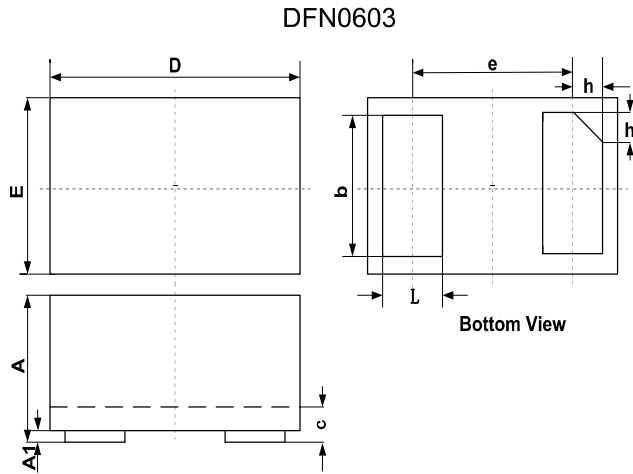


Fig. 4. Junction Capacitance vs V_R

PACKAGE MECHANICAL DATA



SYM	DIMENSIONS		
	MILLIMETERS		
	MIN	NOM	MAX
A	0.230		0.330
A1	0.000	0.020	0.050
b	0.215	0.245	0.275
c	0.120	0.150	0.180
D	0.550	0.600	0.650
e	0.355 BSC		
E	0.250	0.300	0.350
L	0.160	0.190	0.220
h	0.079 BSC		

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[HF](#) [3.0SMCJ33CA-F](#) [3.0SMCJ36A-F](#) [HSPC16701B02TP](#) [JANTX1N6126A](#) [D3V3Q1B2DLP3-7](#) [D55V0M1B2WS-7](#) [SCM1293A-04SO](#)
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