

FEATURES:

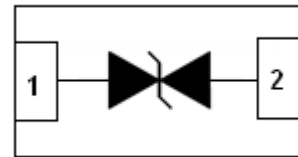
- ✧ Protects one bi-directional I/O line
- ✧ Low clamping voltage
- ✧ Low operating voltage: 5.0V
- ✧ ROHS compliant
- ✧ Compliant to Halogen - free

MAIN APPLICATIONS

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



DFN0603



PIN Configuration

PROTECTION SOLUTION TO MEET

- ✧ IEC61000-4-2 (ESD) ±15kV (air), ±15kV (contact)
- ✧ IEC61000-4-5 (Lightning) 4A (8/20µs)

MECHANICAL CHARACTERISTICS

- ✧ Package :DFN0603
- ✧ Molding Compound Flammability Rating : UL 94V-O
- ✧ Quantity Per Reel : 15,000pcs
- ✧ Lead Finish : Lead Free
- ✧ Marking Code: H

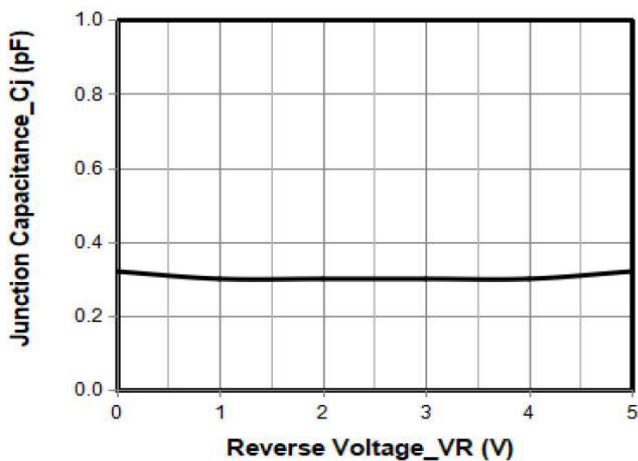
ABSOLUTE MAXIMUM RATINGS (T_A=25°C, RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Value	Unit
Storage temperature range	T _{stg}	-55 to +150	°C
Operating junction temperature range	T _j	-55 to +125	°C
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Peak pulse power dissipation on 8/20 µs waveform	P _{PP}	100	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	+/- 15	kV
ESD per IEC 61000-4-2 (Contact)		+/- 15	

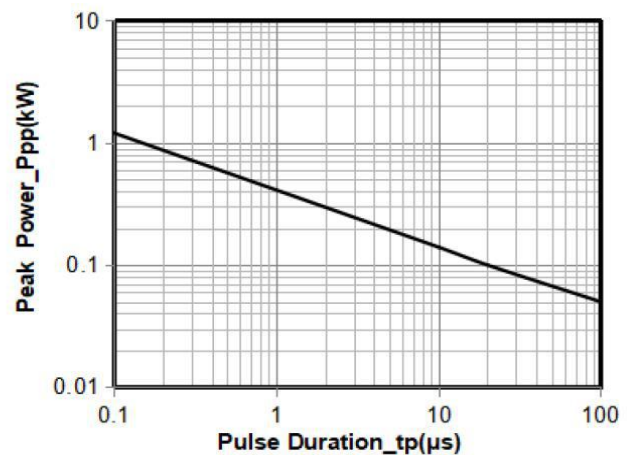
ELECTRICAL CHARACTERISTICS (T_A=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Working Voltage	V _R				5.0	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	6.0			V
Reverse Leakage Current	I _R	V _R = 5V			0.2	μA
Peak Pulse Current	I _{pp}	t _p = 8/20μs			4	A
Clamping Voltage	V _C	I _{PP} = 1A, t _p = 8/20μs			12	V
		I _{PP} = 4A, t _p = 8/20μs			25	V
Junction Capacitance	C _J	V _R = 0V, f = 1MHz		0.3	0.5	pF

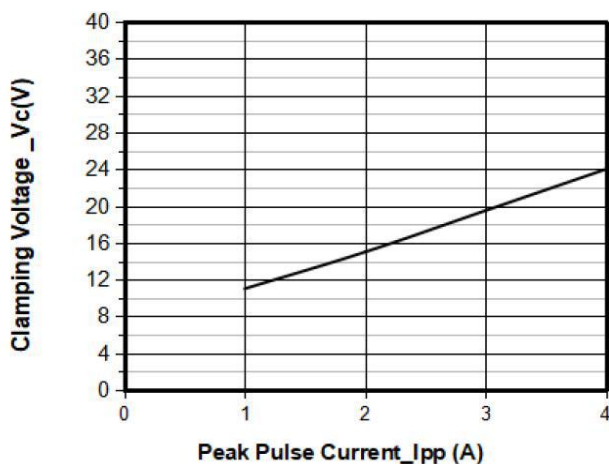
Typical Performance Characteristics (T_A=25°C, unless otherwise noted)



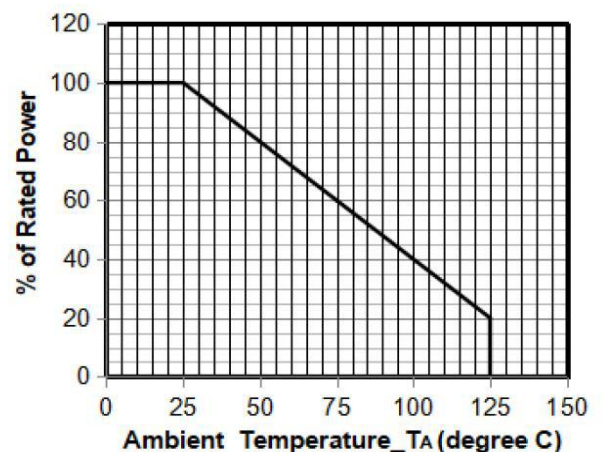
Junction Capacitance vs. Reverse Voltage



Peak Pulse Power vs. Pulse Time

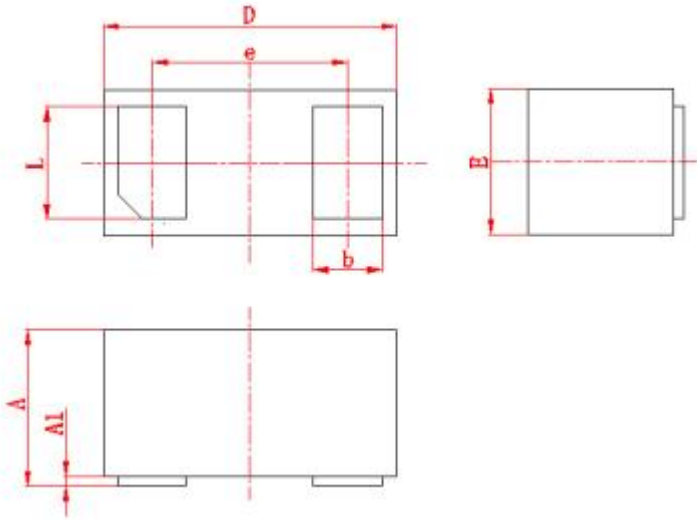


Clamping Voltage vs. Peak Pulse Current



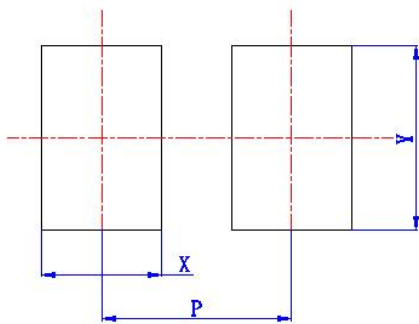
Power Derating Curve

PACKAGE MECHANICAL DATA



Symbol	Dimension in Millimeters	
	min	max
A	0.27	0.37
A1	0	0.05
D	0.55	0.65
E	0.25	0.35
e	(0.4)	
b	0.09	0.19
L	0.18	0.28

SUGGESTED LAND PATTERN



Symbol	Dimension in Millimeters
	typ
X	(0.32)
Y	(0.40)
P	(0.47)