

V_{RWM}	5.0	V
P_{PP}	60	W
I_{PP}	5.0	A

● Feature

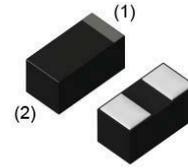
- High reliability
- WL-CSP
- Bi-directional ESD protection
- ESD protection level $\pm 8kV$ (IEC61000-4-2 Contact)
- Dimension tolerance $\pm 10\mu m$

● Application

- Cellular handsets and accessories
- Portable electronics
- Data lines
- Audio and Video equipment

● Outline

DSN0603-2 SOD-962 SMD0603



● Inner Circuit



● Packaging Specification

Packing	Embossed Tape
Reel Size(mm)	180
Taping Width(mm)	8
Basic Ordering Unit(pcs)	15000
Taping Code	T15R
Marking	BC

● Absolute Maximum Rating (Ta=25°C)

Parameter	Symbol	Conditions	Min.	Max.	Unit	
Peak pulse power	P_{PP}	$t_p=8/20\mu s$	-	60	W	
Maximum Peak Pulse Current	I_{pp}	$t_p=8/20\mu s$	-	5.0	A	
Electrostatic discharge voltage*	V_{ESD}	IEC61000-4-2	Air discharge	-	± 15	kV
			Contact	-	± 8	kV
		Machine model		-	± 400	V
		Human body model		-	± 15	kV
Junction temperature	T_j	-	-	150	°C	
Storage temperature	T_{stg}	-	-55	150	°C	
Operation temperature	T_{opr}	-	-55	150	°C	
Power dissipation	P_d	-	-	100	mW	

* IEC61000-4-2 C=150pF R=330Ω

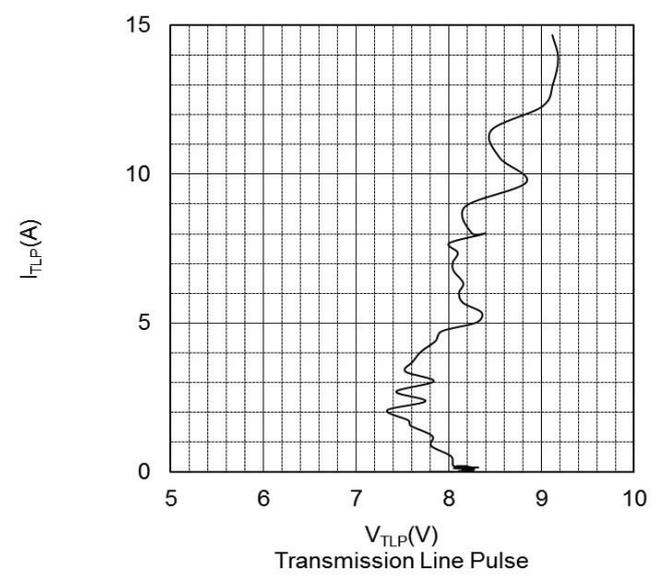
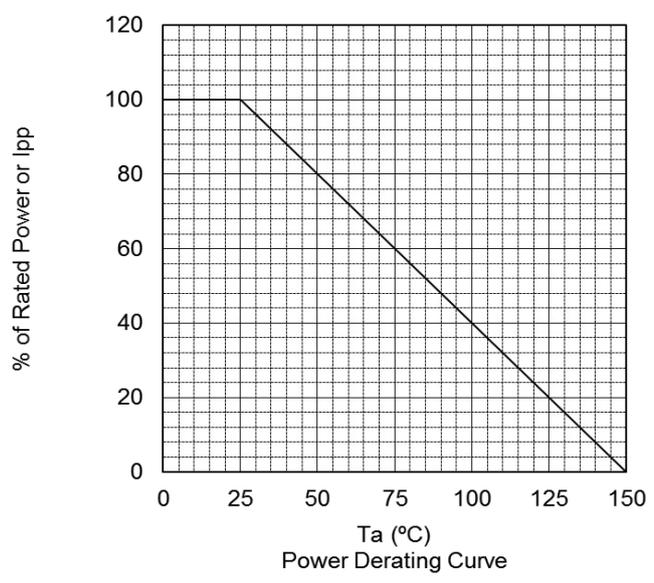
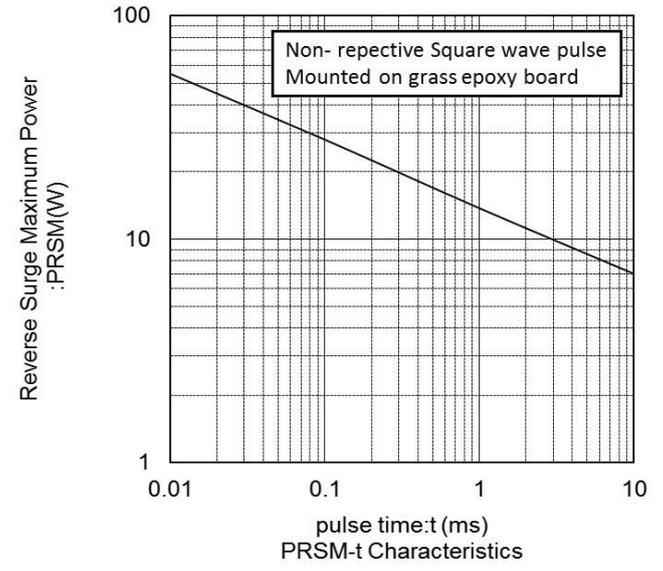
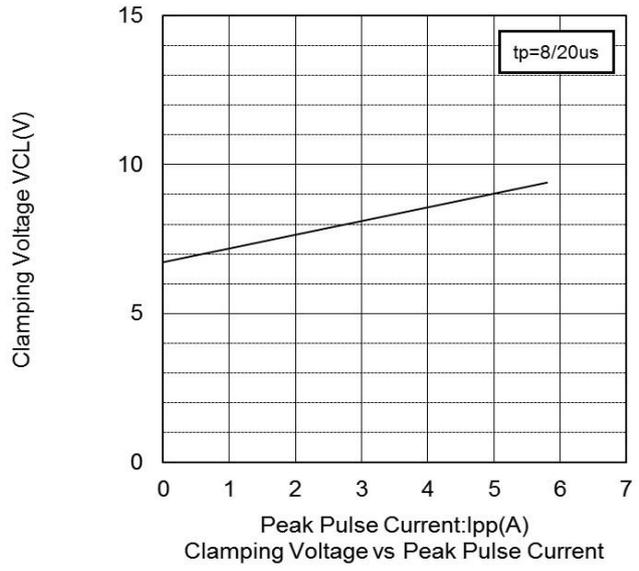
Machine model C=200pF R=0Ω

Human body model C=100pF R=1.5kΩ

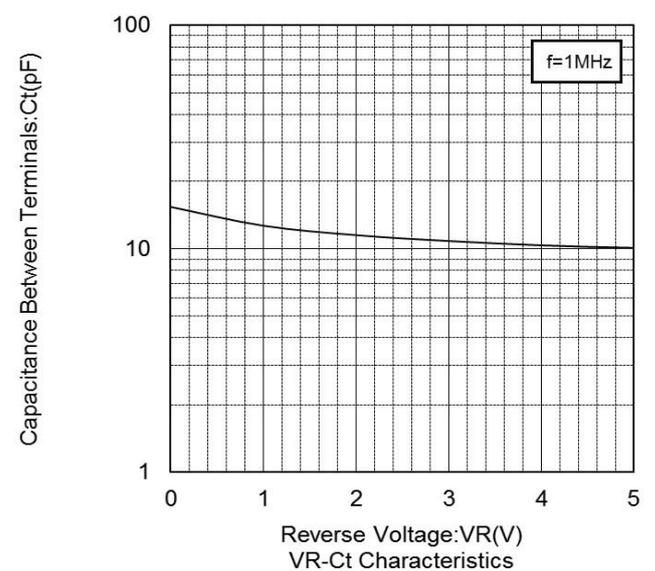
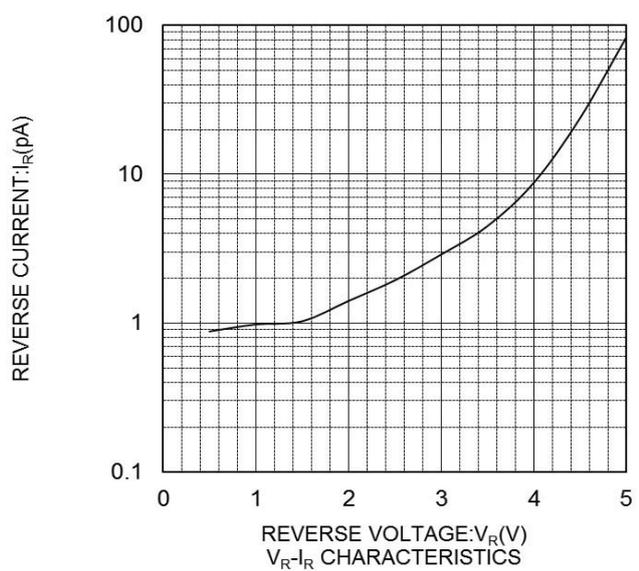
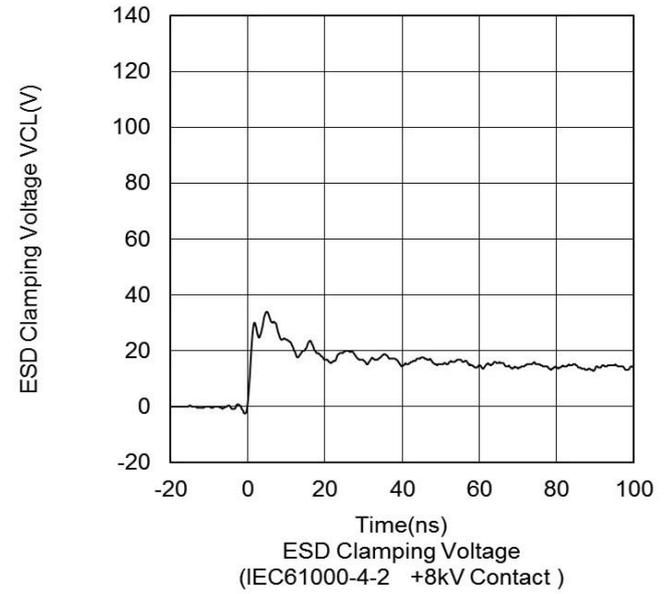
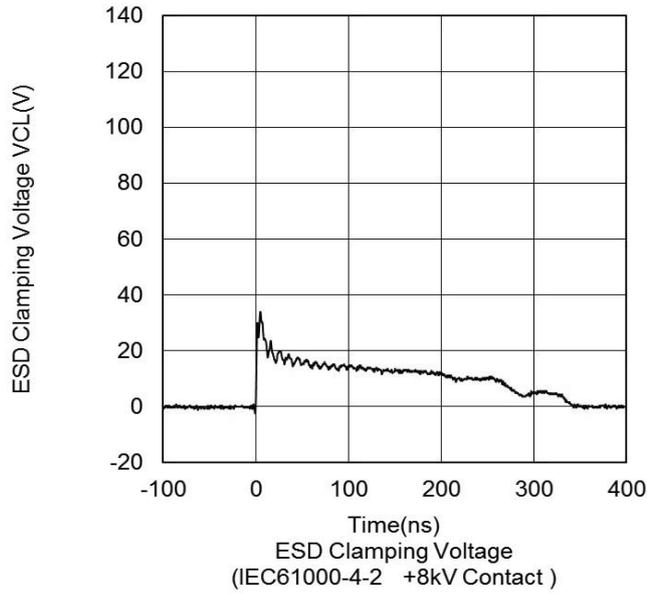
● Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse standoff voltage	V_{RWM}	-	-	-	5.0	V
Reverse breakdown voltage	V_{BR}	$I_T=1mA$	6.0	-	10	V
Reverse leakage current	I_R	$V_R=5V$	-	0.001	0.5	μA
Clamping voltage	V_{CL}	$I_{pp}=5.0A, t_p=8/20\mu s$	-	-	12	V
Capacitance between terminals	C_t	$V_R=0V, f=1MHz$	-	15	22.5	pF

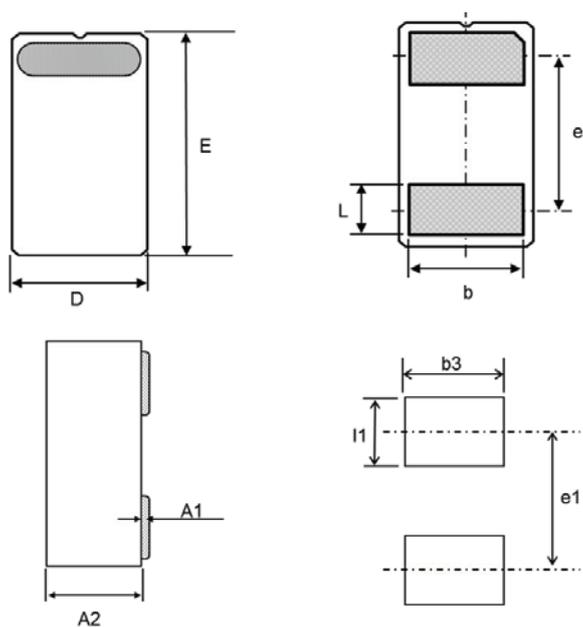
● Electrical Characteristic Curves



● Electrical Characteristic Curves

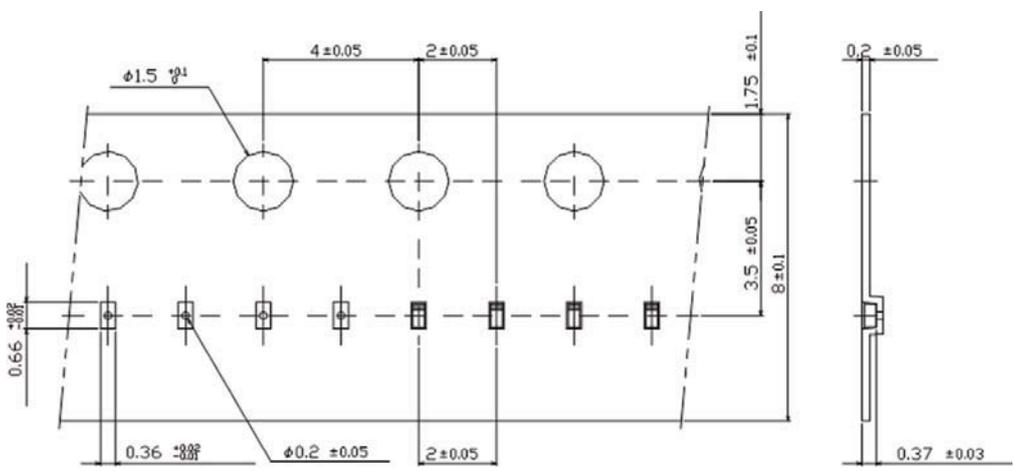


● Dimension



DIM	Millimeters			Inches		
	Min.	Average	Max.	Min.	Average	Max.
A1	0.000	-	0.010	0.000	-	0.000
A2	0.270	0.280	0.290	0.011	0.011	0.011
b	0.250	0.260	0.270	0.010	0.010	0.011
D	0.290	0.300	0.310	0.011	0.012	0.012
E	0.590	0.600	0.610	0.023	0.024	0.024
L	0.170	0.180	0.190	0.007	0.007	0.007
e	0.370	0.380	0.390	0.015	0.015	0.015
l1	-	0.230	-	-	0.009	-
b3	-	0.310	-	-	0.012	-
e1	-	0.380	-	-	0.015	-

● Taping



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