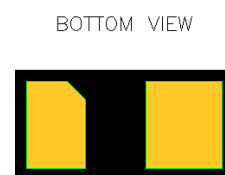
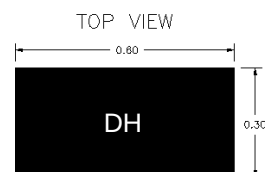
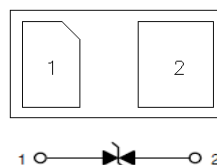


- ◇ Bi-Directional Transient Voltage Suppressor
- ◇ Low Leakage
- ◇ IEC61000-4-2 Level 4 ESD Protection
- ◇ ROHS Compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)
- ◇ Device Marking Code

DFN0603-2L Unit:mm

Equivalent Circuit



Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
V _{ESD-Air}	ESD Voltage IEC61000-4-2 Air	±10	kV
V _{ESD-Contact}	ESD Voltage IEC61000-4-2 Contact	±8	kV
P _{PK}	Peak Pulse Power (8/20 μs)	90	W
T _J	Junction Temperature	-55 to 125	°C
T _{STG}	Storage Temperature	-55 to 150	°C
IPP	Peak Pulse Current (8/20 μs)	2	A

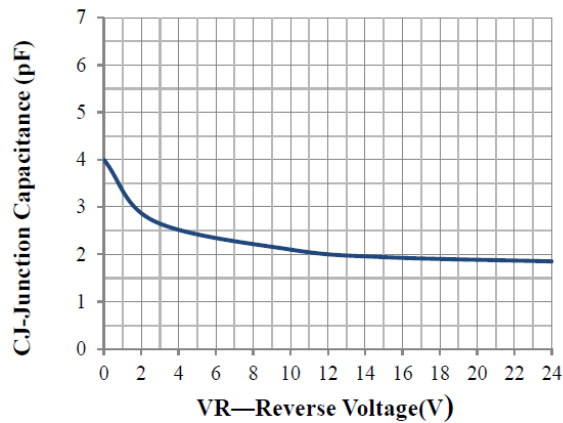
Electrical Characteristics (Ta = 25 °C Unless Otherwise Noted)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V _{RWM}	Reverse Working Peak Voltage				24	V
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA	25.5	29	33	V
I _R	Reverse Current	V _{RWM} = 24V			0.5	μA
V _C	Clamping Voltage	I _{pp} = 1A (8/20 μs)		36	40	V
V _C	Clamping Voltage	I _{pp} = 2A (8/20 μs)		42	47	V
C _J	Junction Capacitance	V _R = 0V, f = 1MHz		4	7	pF

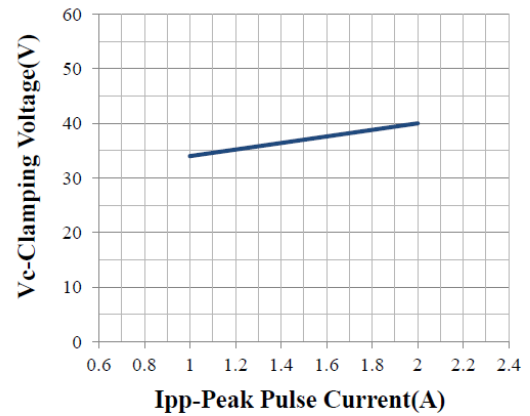
Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
MESD0624C	DFN0603-2L	Tape & Reel 15000pcs / 7" Reel	8mm	4mm	Conductive	

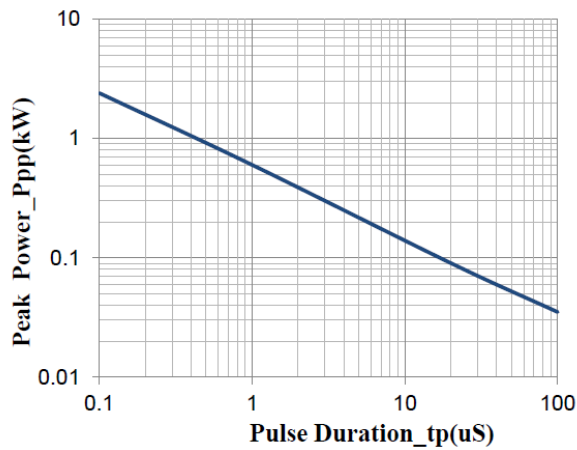
Typical Characteristics



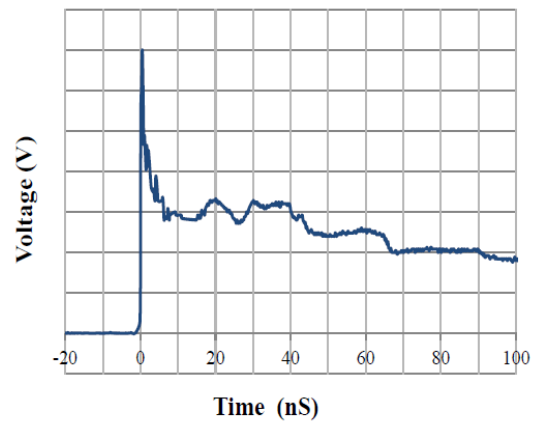
Junction Capacitance vs. Reverse Voltage



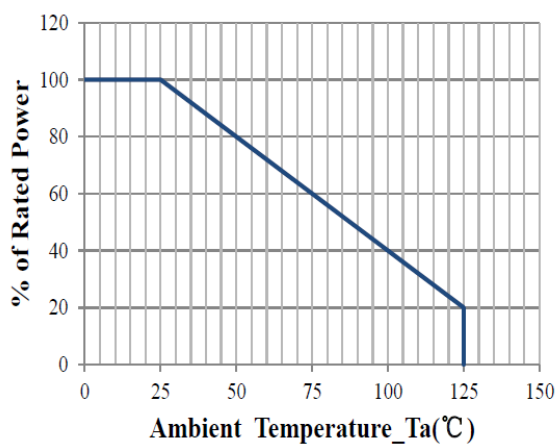
Clamping Voltage vs. Peak Pulse Current



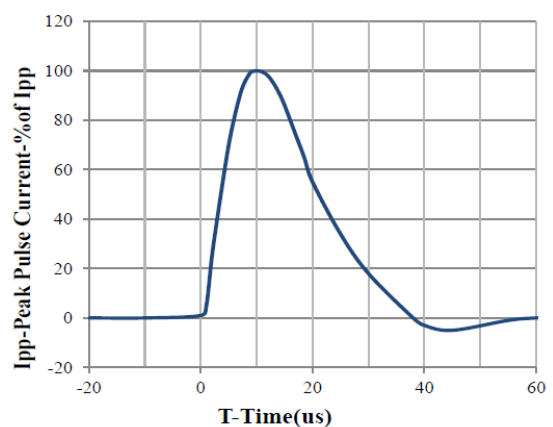
Peak Pulse Power vs. Pulse Time



IEC61000-4-2 Pulse Waveform



Power Derating Curve

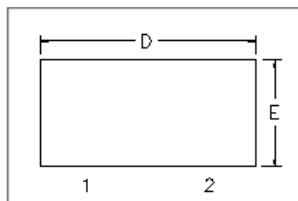


8 X 20us Pulse Waveform

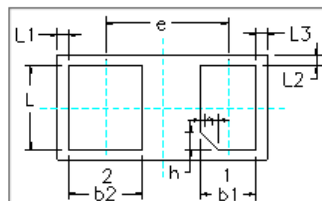
Package Dimensions

Package outline : DFN0603

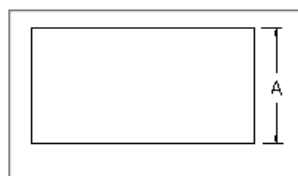
Top view



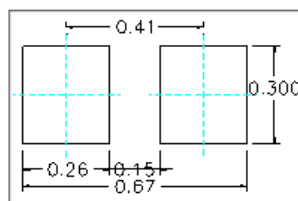
Bottom view



Side view



Soldering Pattern



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.28	0.30	0.32
b1	0.13	0.18	0.23
b2	0.14	0.19	0.24
D	0.55	0.60	0.65
e	0.350BSC		
L1	0.030BSC		
L2	0.025BSC		
L3	0.035BSC		
E	0.25	0.30	0.35
L	0.20	0.25	0.30
h	0.00	0.05	0.10

Notice:

1. Lead no need to do plating
2. Other Tolerance: ± 0.05
3. Dimensions are exclusive of Bumps, Mold Flash and Tie Bar extrusions
4. Unit: mm