

ESDBL0541Z

Transient Voltage Suppressors

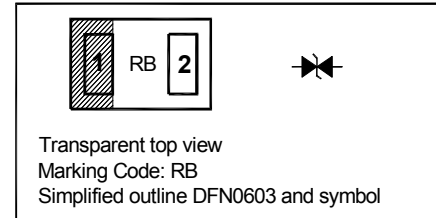
for ESD Protection

Features

- Low reverse current
- Ultra small Package
- Low capacitance
- protects one data or power line

PINNING

PIN	DESCRIPTION
1	Anode
2	Anode



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Pulse Power ($t_p = 8/20 \mu\text{s}$)	P_{PK}	25	W
Peak Pulse Current ($t_p = 8/20 \mu\text{s}$)	I_{PP}	2	A
ESD Discharge (IEC61000-4-2) Air Contact	V_{ESD}	± 17	KV
Operation Temperature Range	T_j	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

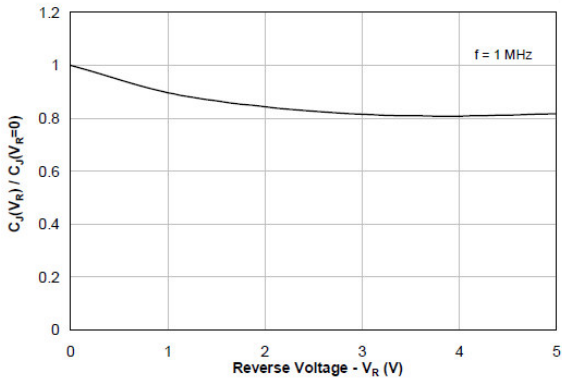
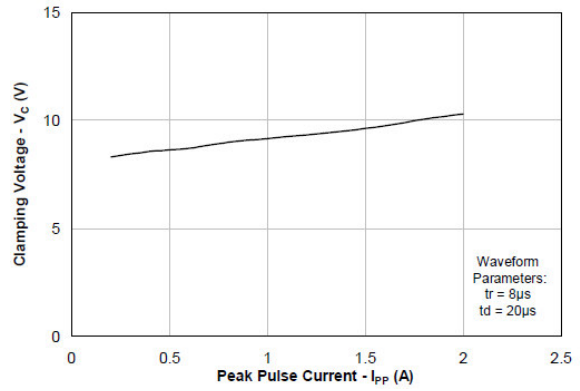
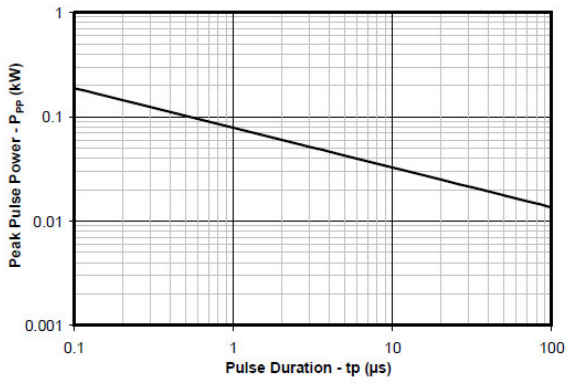
Parameter	Symbol	Min.	Max.	Unit
Reverse Working Voltage	V_{RWM}	-	5	V
Reverse Breakdown Voltage at $I_t = 1 \text{ mA}$	V_{BR}	6	9.5	V
Reverse Current at $V_{RWM} = 5 \text{ V}$	I_R	-	50	nA
Clamping Voltage at $I_{PP} = 1 \text{ A}$, $t_p = 8/20 \mu\text{s}$ at $I_{PP} = 2 \text{ A}$, $t_p = 8/20 \mu\text{s}$	V_C	-	12 15	V
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_j	-	9	pF

TOP DYNAMIC



Dated: 29/08/2014 Rev: 01

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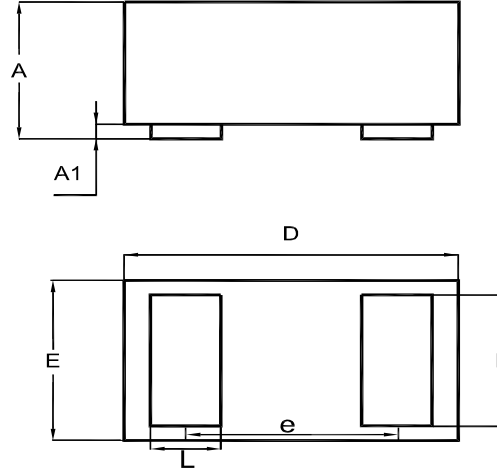
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PACKAGE OUTLINE

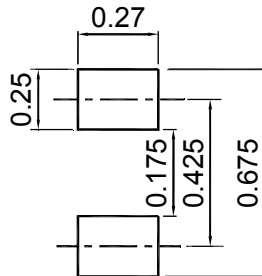
Plastic surface mounted package; 2 leads

DFN0603



UNIT	A	A1	b	D	E	e	L
mm	0.27 0.33	0 0.025	0.21 0.29	0.57 0.65	0.28 0.35	0.355	0.14 0.22

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
DFN0603	8	4 ± 0.1	0.157 ± 0.004	178	7	10,000

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