

ESDBL0541Z-HAF

Transient Voltage Suppressors

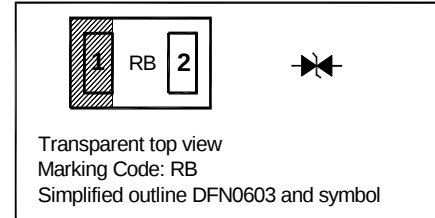
for ESD Protection

Features

- Low reverse current
- Ultra small Package
- Low capacitance
- protects one data or power line
- Halogen and Antimony Free(HAF), RoHS compliant

PINNING

PIN	DESCRIPTION
1	Anode
2	Anode

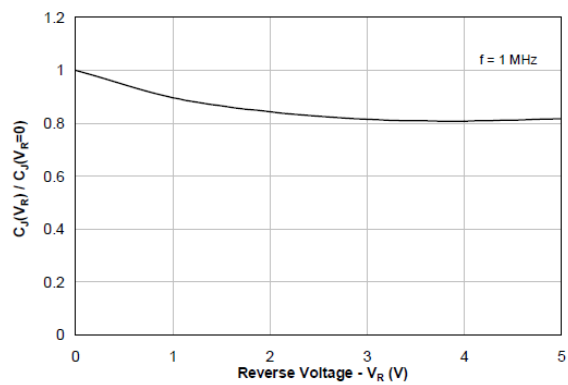
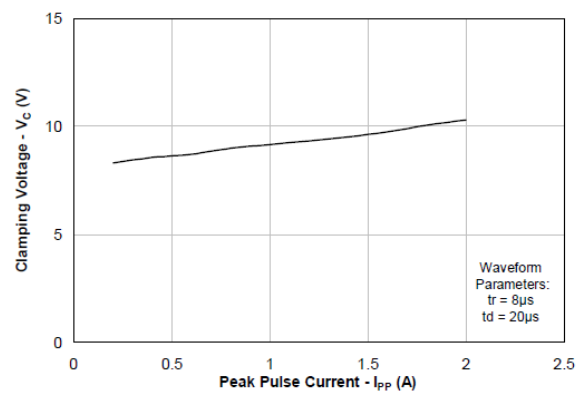
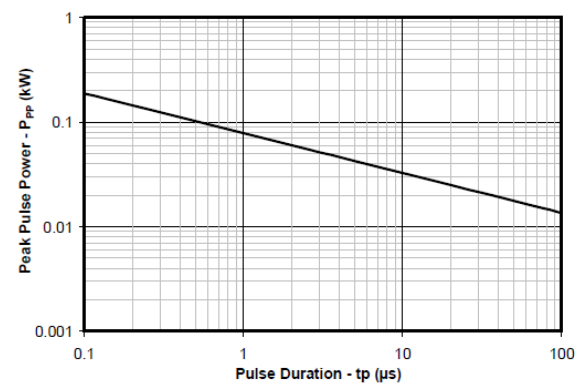


Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

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

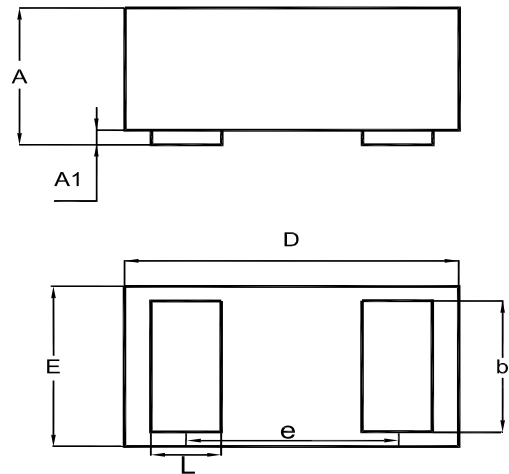
Parameter	Symbol	Min.	Max.	Unit
Reverse Working Voltage	V_{RWM}	-	5	V
Reverse Breakdown Voltage at $I_t = 1 \text{ mA}$	V_{BR}	6	9.5	V
Reverse Current at $V_{RWM} = 5 \text{ V}$	I_R	-	50	nA
Clamping Voltage at $I_{PP} = 1 \text{ A}$, $t_p = 8/20 \mu\text{s}$ at $I_{PP} = 2 \text{ A}$, $t_p = 8/20 \mu\text{s}$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



PACKAGE OUTLINE

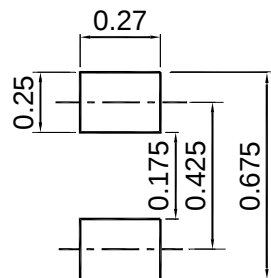
Plastic surface mounted package; 2 leads

DFN0603



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