

# ESDBL5481Z-HAF

## Transient Voltage Suppressors

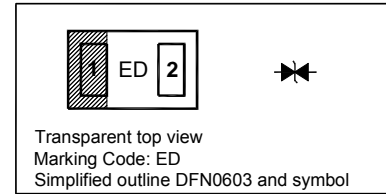
for ESD Protection

### Features

- Low clamping voltage
- Low capacitance
- 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 Current ( $t_p = 8/20 \mu\text{s}$ )	$I_{PP}$	1	A
ESD contact discharge (IEC61000-4-2) Air Contact	$V_{ESD}$	$\pm 20$ $\pm 20$	KV
Total Power Dissipation <sup>1)</sup>	$P_{tot}$	300	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	400	$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	$T_j$	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

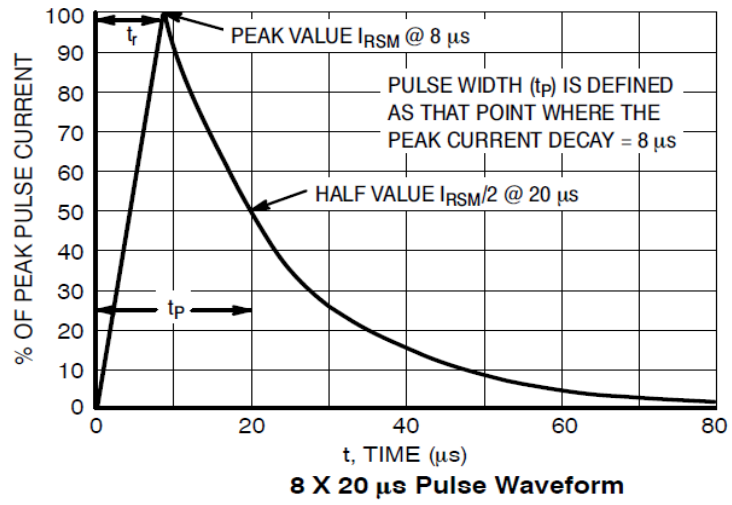
<sup>1)</sup> FR-5 = 1.0 x 0.75 x 0.62 in.

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Stand-Off Voltage	$V_{RWM}$	-	5	V
Reverse Breakdown Voltage <sup>2)</sup> at $I_R = 1 \text{ mA}$	$V_{(BR)R}$	5.7	-	V
Reverse Current at $V_{RWM} = 5 \text{ V}$	$I_R$	-	1	$\mu\text{A}$
Clamping Voltage <sup>1)</sup> at $I_{PP} = 1 \text{ A}$	$V_C$	-	12.5	V
Junction Capacitance	$C_j$	-	15	pF

<sup>1)</sup> Surge current waveforms.

<sup>2)</sup> VBR is measured with a pulse test current  $I_T$  at an ambient temperature of  $25^\circ\text{C}$ .

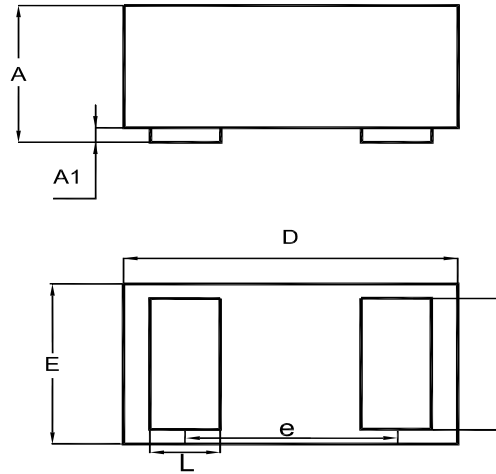


# ESDBL5481Z-HAF

## PACKAGE OUTLINE

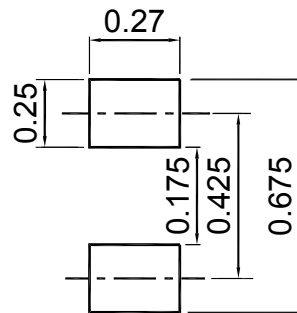
Plastic surface mounted package; 2 leads

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