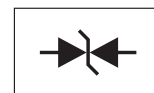


ÚÜQ	œÿÁÓPœÜœVòÜQVòUÁ
ÚÜÁ	ÏÍY Á
XÜY T Ê œ Á	Í ÈXÁ
QÜÁ	Í ÈOÁ
XôÁ	FÍ ÈXÁ
XóÜÊ ã Á	Î ÈXÁ
V _{RE} œ Á	FG °CÁ

ΕΙ ΕΗΑΑΑ ÜOÖSœOÖÒÀ

- Body Marking Example
Marking : \overline{R}



Bi-Directional

ØOÖ/WÜOÙÀ

- Á OÖÁ FœœÈ ÈGŠ^ç|Á ÒÜOÁ
] |{ ç & ç } ÈÁ
- Á Š |, Á œ œ ^ Á & || ^ } çÁÁ
- Á T [ã ç | ^ Á ^ } • ã ç Š^ç|Á

T ÒOÖPœP ÖOÖŠÖOÖVÖÁ

- Á Ôœ ^ : T [|á^áÁ | œ ç È ÈÁ
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Maximum ratings (at T_A=25°C unless otherwise noted)

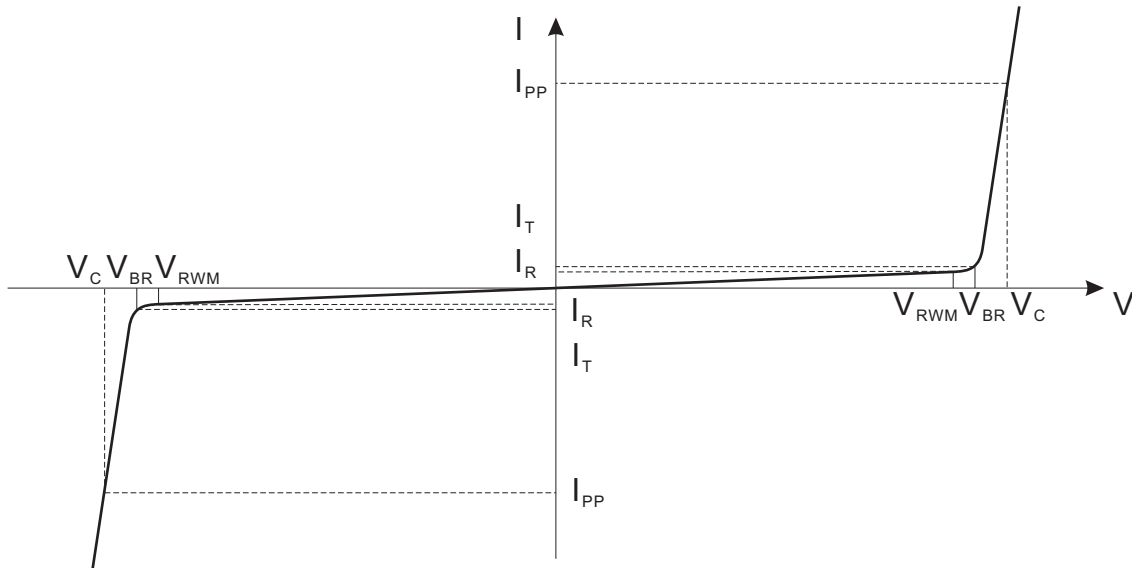
PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Peak pulse power	tp = 8/20us	P _{PP}			75	W
Peak pulse current	tp = 8/20us	I _{PP}			5	A
ESD per IEC 61000-4-2	Air discharge	ESD			±16	KV
	Contact discharge				±8	
Operating Junction temperature range		T _J	-55		+125	°C
Storage temperature range		T _{STG}	-55		+150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Electrical characteristics (at T_A=25°C unless otherwise noted)

Part No.	V _{RWM} (V) Max.	I _R (µA) @V _{RWM} Max.	I _T (mA)	V _{BR} (V) @I _T Min.	V _C (V) @I _{PP} =5A Max.	C _J (pF) @V _R =0V, F=1MHz Max.
ESD5FN5.0C	5.0	2.0	1.0	6.0	15	20

Over voltage available upon request.
1. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C.
2. Surge current waveform per Figure 1.

Typical characteristics (at $T_a=25^\circ\text{C}$ unless otherwise noted)

Bi-Directional TVS

V_C : Clamping Voltage @ I_{PP}

I_{PP} : Maximum Reverse Peak Pulse Current

V_{RWM} : Maximum Reverse Working voltage

I_R : Maximum Reverse Leakage Current @ V_{RWM}

V_{BR} : Breakdown voltage @ I_T

I_T : Test Current

P_{PP} : Peak Pulse Power

C_J : Max. Capacitance @ $V_R = 0\text{V}$ and $f = 1\text{MHz}$

Rating and characteristic curves (ESD5FN5.0C)

FIG.1- 8 X 20us PULSE WAVEFORM

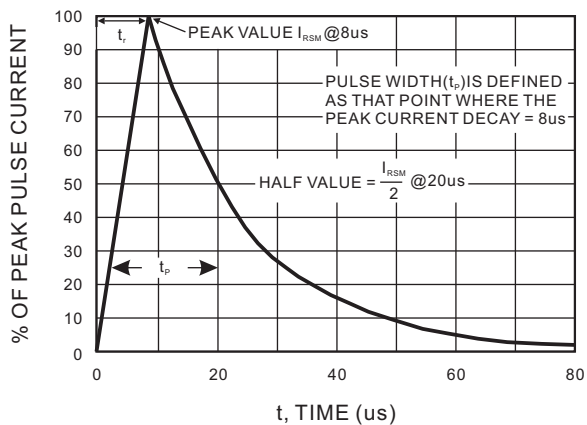


FIG.2- CLAMPING VOLTAGE VS. PEAK PULSE CURRENT

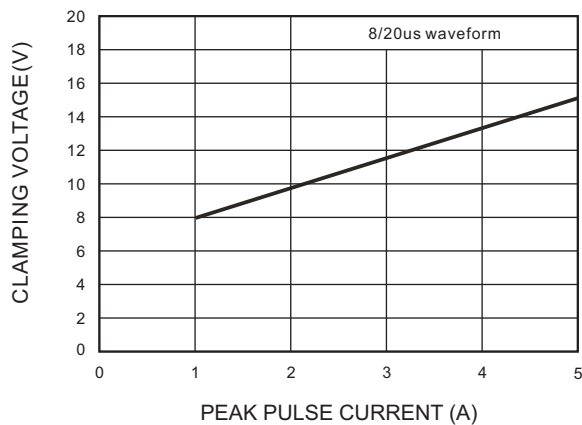


FIG.3- TERMINALS CHARACTERISTICS

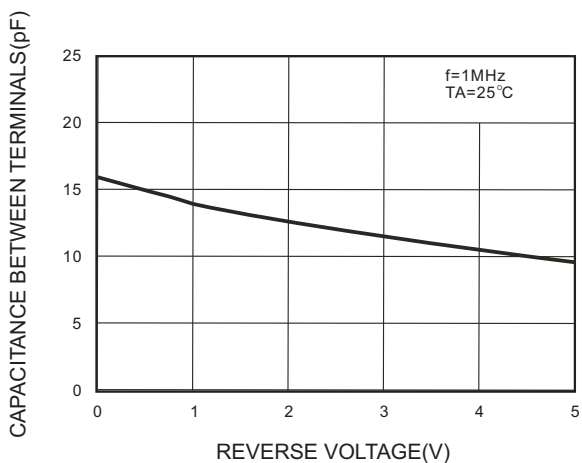
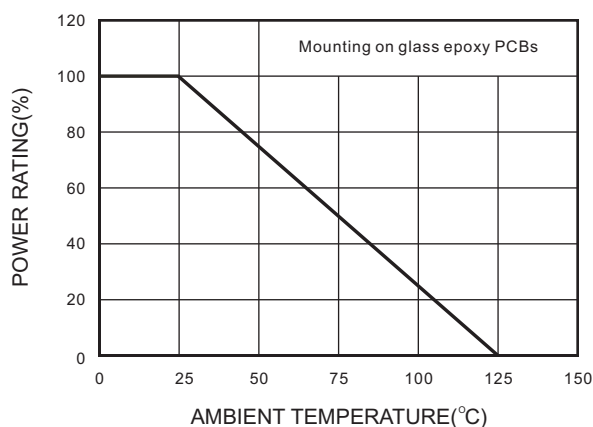
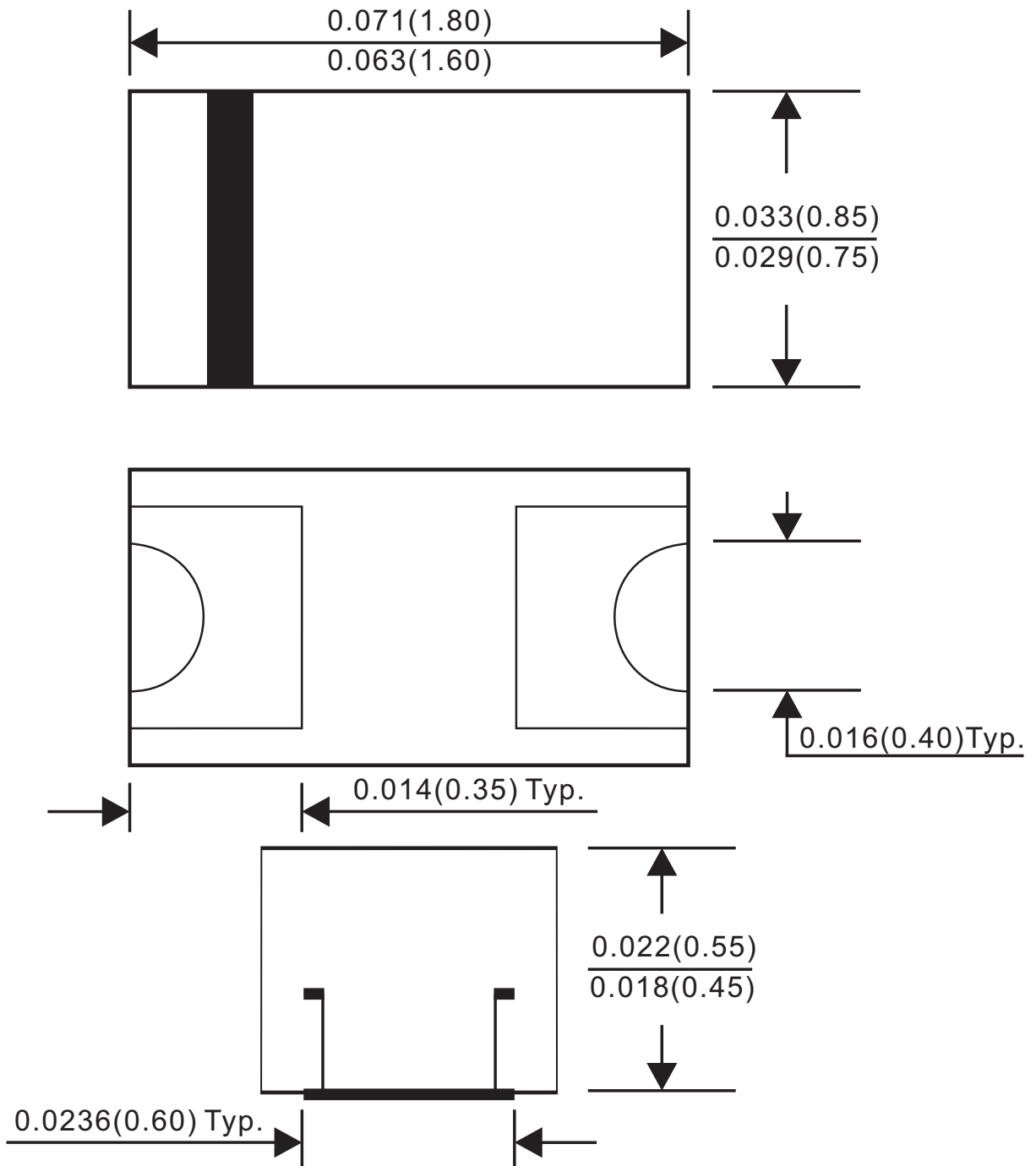


FIG.4- POWER RATING DERATING CURVE



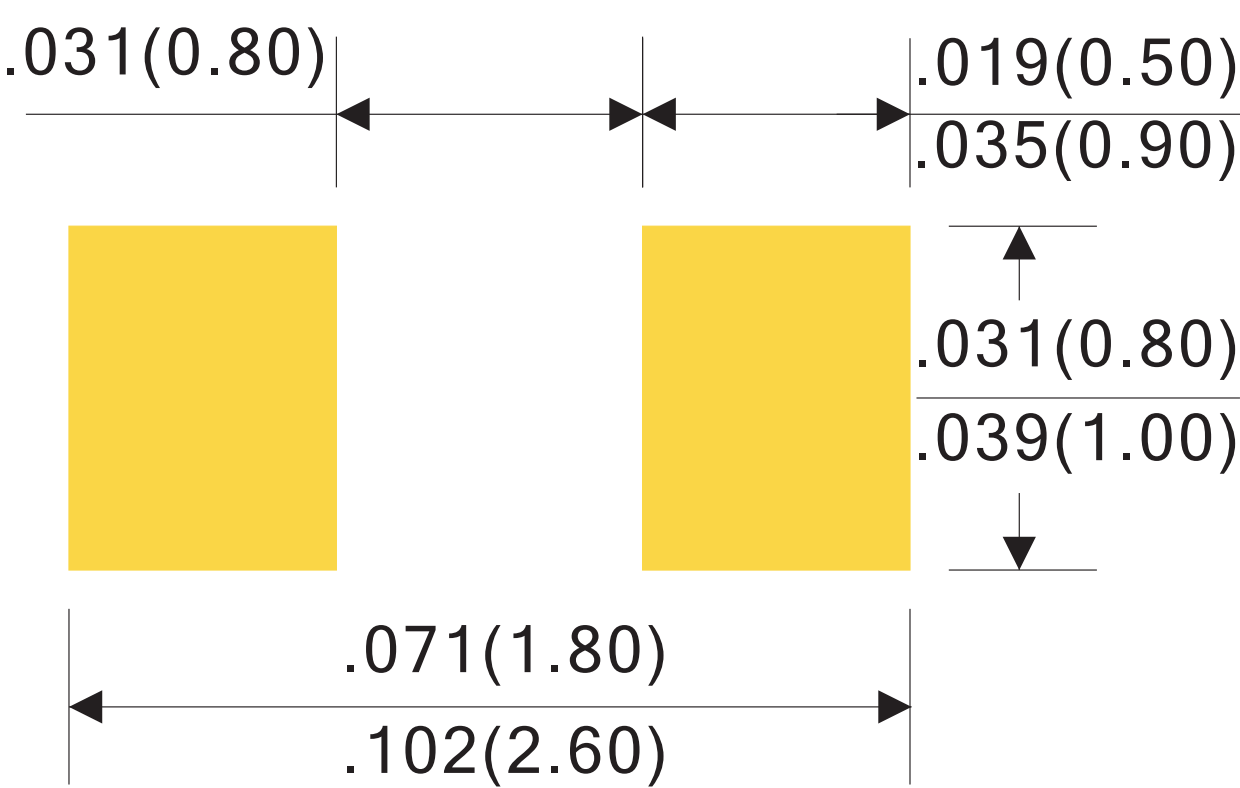
Outline Drawing

0603

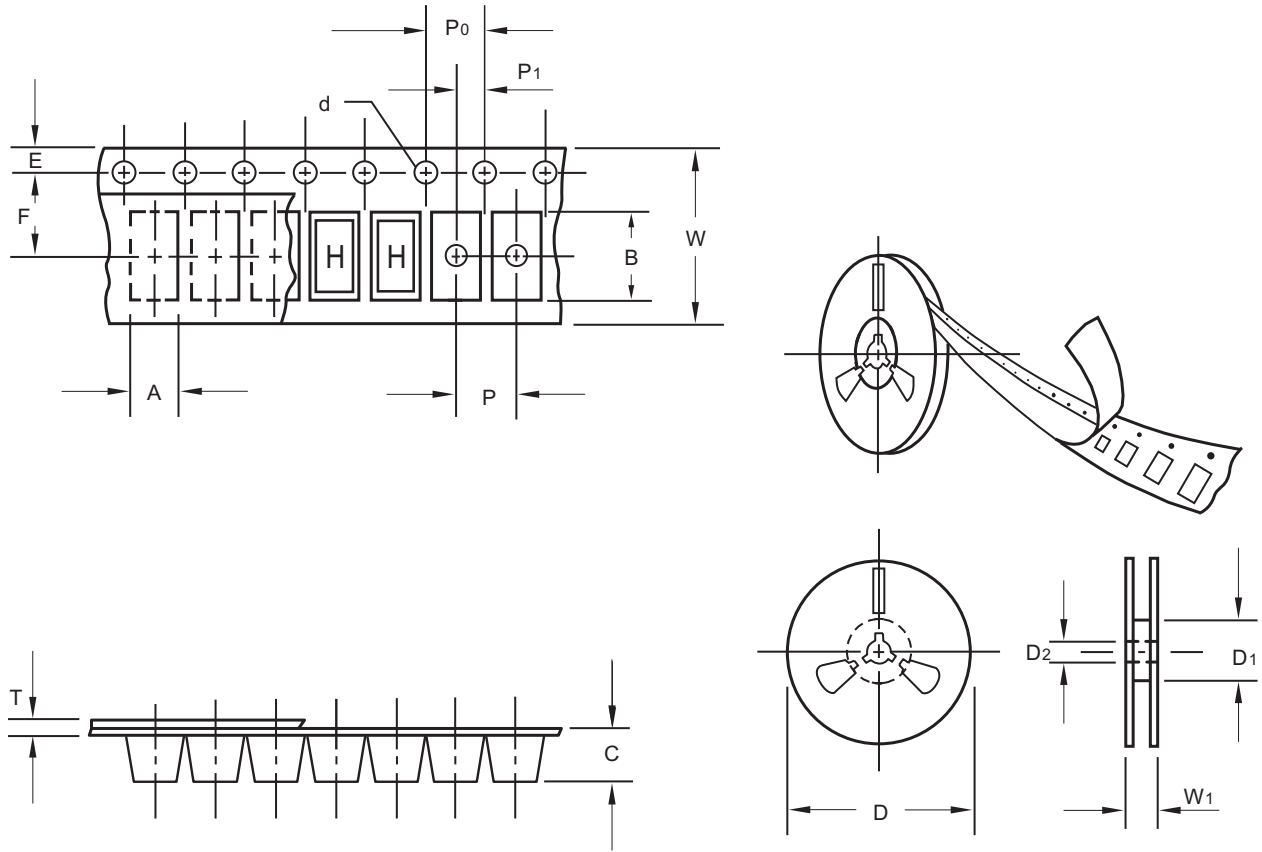


Dimensions in inches and (millimeters)

Rev.B

Suggested Soldering Pad Layout	0603
 <p>Dimensions in inches and (millimeters)</p>	
RevA	

Packing information



unit:mm

Item	Symbol	Tolerance	0603
Carrier width	A	0.1	1.00
Carrier length	B	0.1	1.80
Carrier depth	C	0.1	0.65
Sprocket hole	d	0.1	1.50
13" Reel outside diameter	D	2.0	-
13" Reel inner diameter	D ₁	min	-
7" Reel outside diameter	D	2.0	178.00
7" Reel inner diameter	D ₁	min	62.00
Feed hole diameter	D ₂	0.5	13.00
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.05	3.50
Punch hole pitch	P	0.1	4.00
Sprocket hole pitch	P ₀	0.1	4.00
Embossment center	P ₁	0.05	2.00
Overall tape thickness	T	0.1	0.23
Tape width	W	0.1	8.00
Reel width	W ₁	1.0	11.40

Note: Devices are packed in accordance with EIA standard 481-D and specifications listed above.

Ordering Information:

Device PN	Packing
ESD5FN5.0# -T ⁽¹⁾ H ⁽²⁾ -WS	Tape&Reel: 5 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) Halogen free product for packing code suffix "H"

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