

Features

- Transient protection for data&power lines to IEC 61000-4-2(ESD) $\pm 15\text{KV}$ (air), $\pm 8\text{kV}$ (contact)
- Working voltage: 5V
- Low leakage current

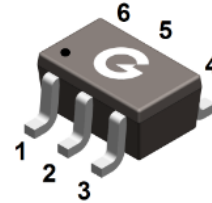
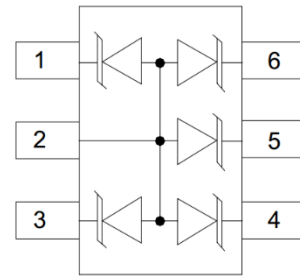
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Typical Applications

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Portable Instrumentation

Mechanical Data

- Case: SOT-363
- Molding compound, UL flammability classification rating 94V-0
- Terminals: Tin plated leads, solderable per MIL-STD-202, Method 208



SOT-363

Ordering Information

Part Number	Package	Shipping	Marking Code
BLF05C	SOT-363	3000 pcs / Tape Reel	F5C

Maximum Ratings (@ $T_A=25^\circ\text{C}$ unless otherwise specified)

Characteristic	Symbol	Value	Units
Peak pulse power ($t_p = 8/20\mu\text{s}$)	P_{PK}	100	W
Peak pulse current ($t_p = 8/20\mu\text{s}$)	I_{PP}	7	A
Reverse Stand-off Voltage	V_{RWM}	5	V
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 15	KV
ESD according to IEC61000-4-2 contact discharge		± 8	

Thermal Characteristics

Parameter	Symbol	Value	Units
Junction temperature	T_J	$-40 \sim +125$	$^\circ\text{C}$
Storage temperature range	T_{STG}	$-55 \sim +150$	$^\circ\text{C}$

Electrical Characteristics (@ $T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Units
Reverse breakdown voltage	V_{BR}	$I_R = 1\text{mA}$	6	-	-	V
Reverse leakage current	I_R	$V_R = 5\text{V}$	-	-	5	μA
Clamping voltage	V_C	$I_{PP} = 7\text{A}$, $t_p = 8/20\mu\text{s}$	-	-	15	V
Junction capacitance	C_J	$V_R = 0\text{V}$, $f = 1\text{MHz}$ Pin 1 ,3,4,5,6 to 2	-	-	130	pF

Ratings and Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

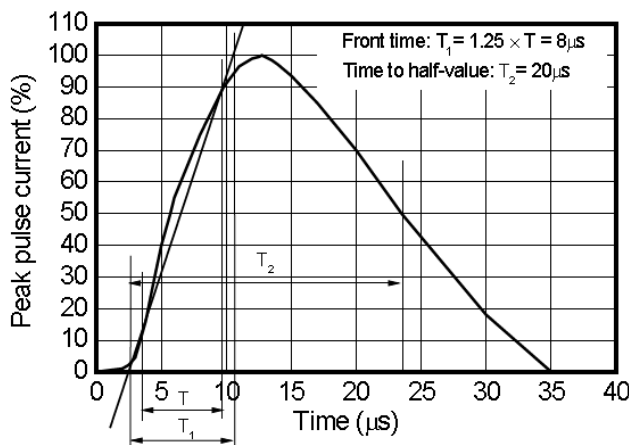


Fig1. 8/20 μs waveform per IEC61000-4-5

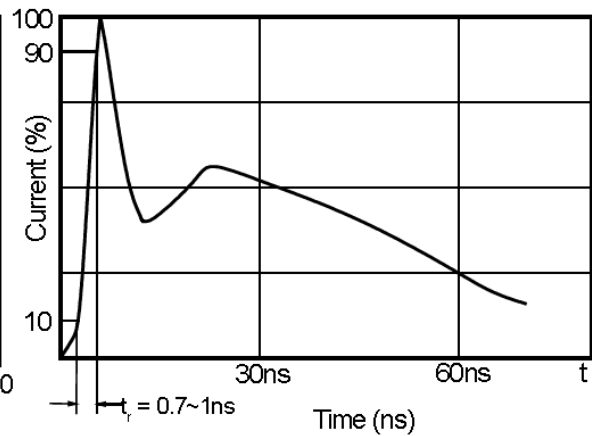


Fig2. ESD pulse waveform according to IEC61000-4-2

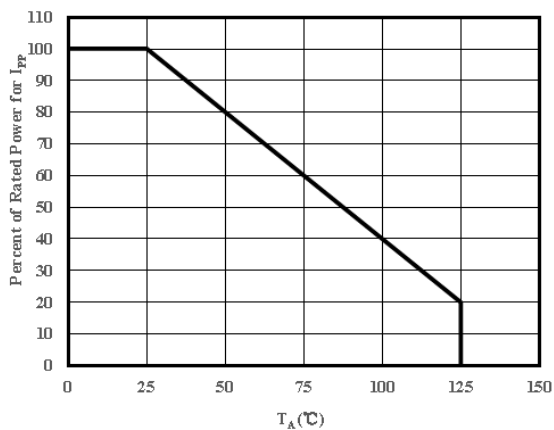
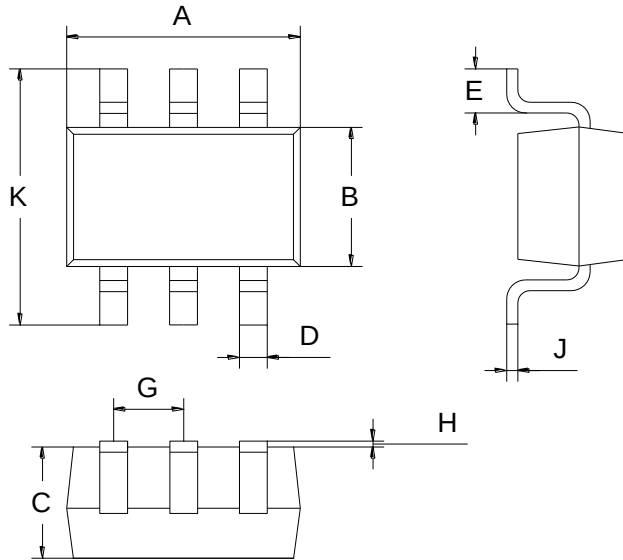


Fig3. Power Derating Curve

Package Outline Dimensions (unit: mm)

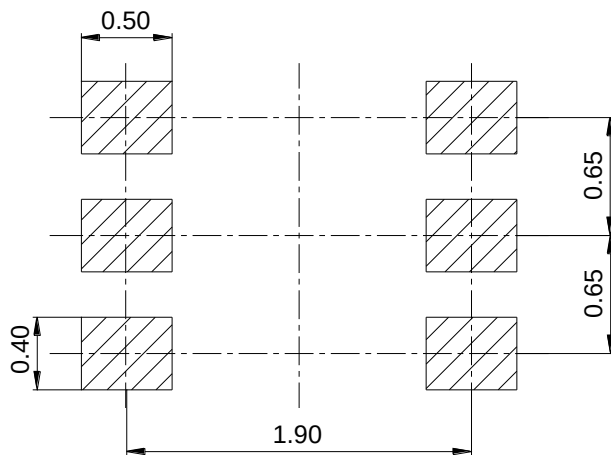
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Dim	Min	Max
A	2.00	2.20
B	1.15	1.35
C	0.85	1.05
D	0.15	0.35
E	0.25	0.40
G	0.60	0.70
H	0.02	0.10
J	0.05	0.15
K	2.20	2.40

Mounting Pad Layout (unit: mm)

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