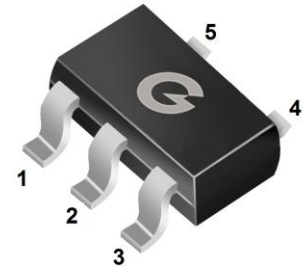
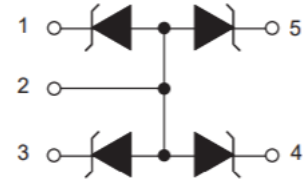


Features

- 4 Unidirectional Transil Functions
- Low Leakage Current: I_R max. $< 10 \mu A$ at V_{BR}
- 350 W Peak Pulse Power (8/20 μs)
- Halogen free
- Qualified to AEC-Q101 standards for high reliability

HF



SOT-23-5L

APPLICATIONS

- Computers
- Printers
- Communication Systems
- GSM Handsets And Accessories
- Other Telephone Set

Mechanical Data

- Case: SOT-23-5L
- Molding Compound, UL Flammability Classification Rating 94V-0.
- Terminals: Tin Plated Leads, solderable per MIL-STD-202, Method 208.

Ordering Information

Part Number	Package	Shipping	Marking Code
TL054BT25	SOT-23-5L	3000 pcs / Tape & Reel	EC53

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

Characteristic	Symbol	Value	Units
Peak Pulse Power ($t_p = 8/20\mu s$)	P_{PK}	350	W
Peak Pulse Current ($t_p = 8/20\mu s$)	I_{PP}	22	A
Reverse Stand-off Voltage	V_{RWM}	5	V
ESD According to IEC61000-4-2 Air	V_{ESD}	30	KV
ESD According to IEC61000-4-2 Contact Discharge		30	

Thermal Characteristics

Parameter	Symbol	Value	Units
Junction Temperature	T_J	-55 to +150	$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ C$

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

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	$I_R = 1mA$	6	-	-	V
Reverse Leakage Current	I_R	$V_R = 5V$	-	-	10	μA
Clamping Voltage $t_p=8/20\mu s$	V_C	$I_{PP}=1A$	-	-	9	V
		$I_{PP}=22A$	-	-	25	
Junction Capacitance	C_j	$V_R=0V, f=1MHz$	-	150	200	pF

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

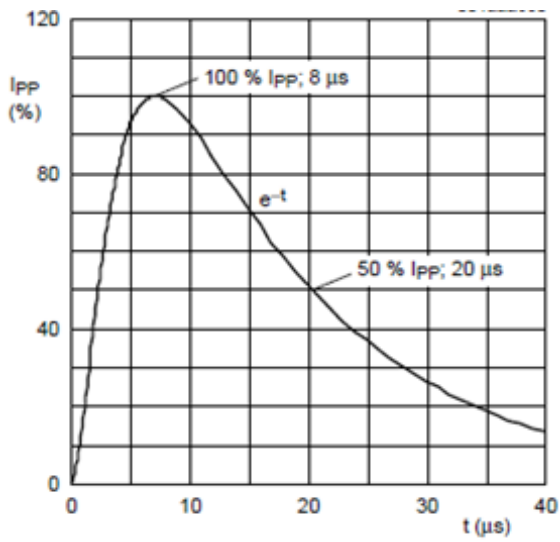


Fig1. 8/20us pulse waveform according to IEC61000-4-5

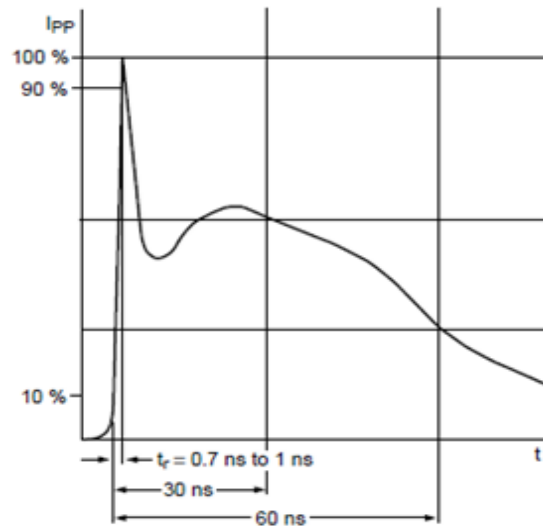
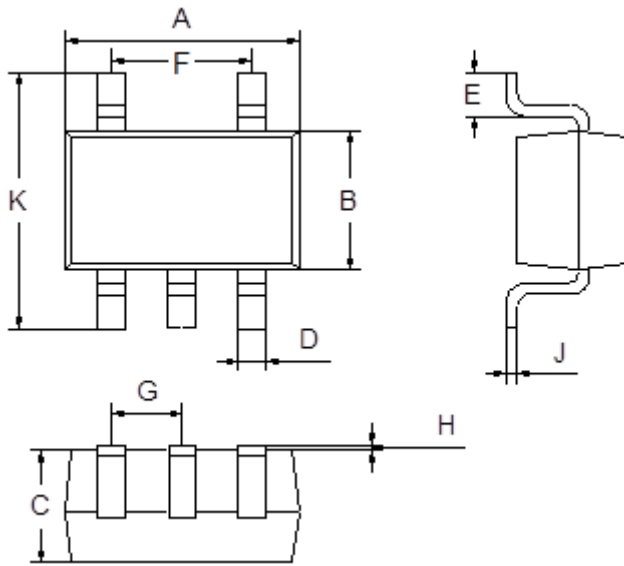


Fig2. ESD pulse waveform according to IEC61000-4-2

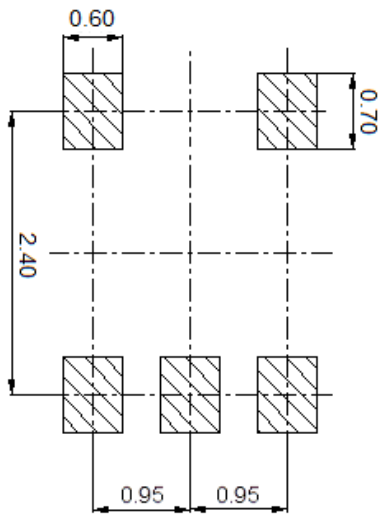
Package Outline Dimensions(unit:mm)

SOT-23-5L



SOT-23-5L		
Dim	Min	Max
A	2.80	3.00
B	1.50	1.70
C	1.00	1.20
D	0.35	0.45
E	0.35	0.55
F	1.80	2.00
G	0.90	1.00
H	0.02	0.10
J	0.10	0.20
K	2.60	3.00
All Dimensions in mm		

Mounting Pad Layout(unit:mm)



IMPORTANT NOTICE

Galaxy Microelectronics (GME) reserves the right to make changes without further notice to any product herein to make corrections, modifications, improvements, or other changes. GME does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others.