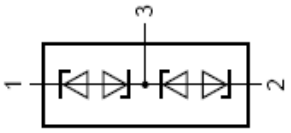
Features

- ESD / transient protection of high speed data lines
  - IEC 61000-4-2 (ESD): ±30 kV (air), ±30 kV (contact)
- Working voltage: V_{RWM} = 24V
- Low reverse clamping voltage

HF

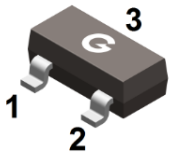


Typical Applications

- Automotive applications

Mechanical Data

- Case: SOT-23
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208



SOT-23

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
PESD2CAN	SOT-23	3000pcs / Tape & Reel	6R

Maximum Ratings (@ T_A = 25℃ unless otherwise specified)

Parameter	Symbol	Value	Unit
IEC 61000-4-2; ESD (Air)	V_{ESD-A}	±30	kV
IEC 61000-4-2; ESD (Contact)	V_{ESD-C}	±30	kV
JESD22-A114-B; ESD (Human Body) *1	V_{ESD-HB}	±16	kV
JESD22-A114-B; ESD (Machine) *1	V_{ESD-M}	±0.4	kV
Peak Pulse Power (t_p = 8/20μs)	P_{PP}	230	W
Peak Pulse Current (t_p = 8/20μs)	I_{PP}	5	A
ISO 7637-3; Pulse 3a	Vs	-150	V
ISO 7637-3; Pulse 3b	Vs	+100	V

Thermal Characteristics

Parameter	Symbol	Value	Unit
Junction Temperature	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Electrical Characteristics (@ T_A = 25℃ unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Stand-off Voltage	V_{RWM}		-	-	24	V
Reverse Breakdown Voltage	$V_{(BR)}$	I_T = 1mA	26.2	-	31	V
Reverse Leakage Current	I_R	V_{RWM} = 24V	-	-	10	nA
Clamping Voltage	V_C	I_{PP} = 1A, tp = 8/20μs	-	-	37	V
		I_{PP} = 5A, tp = 8/20μs	-	-	50	V
Junction Capacitance	C_J	V_R = 0V, f = 1MHZ	-	20	30	pF

Ratings and Characteristic Curves (@ T_A = 25°C unless otherwise specified)

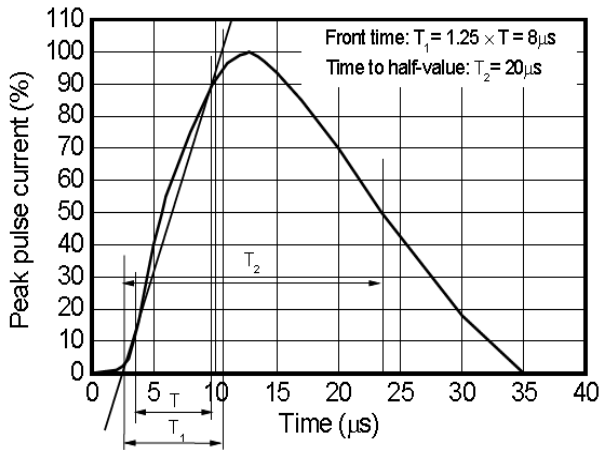


Fig 1 8/2 0μs waveform per IEC61000-4-5

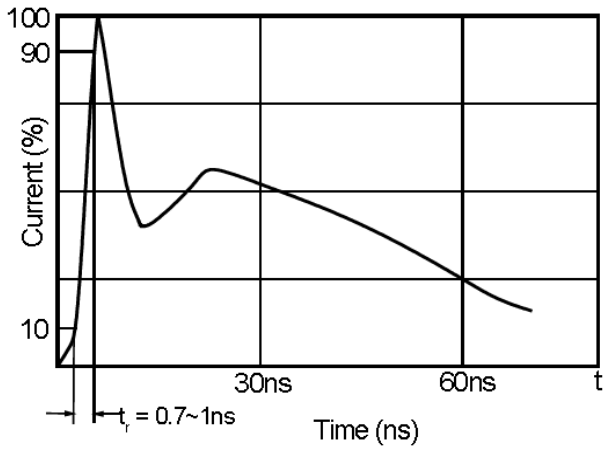


Fig 2 ESD pulse waveform according to IEC61000-4-2

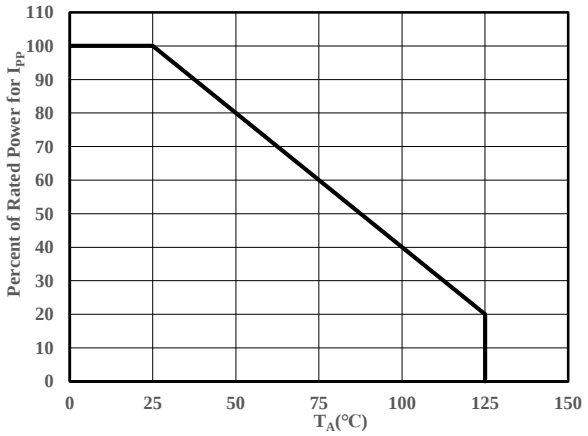
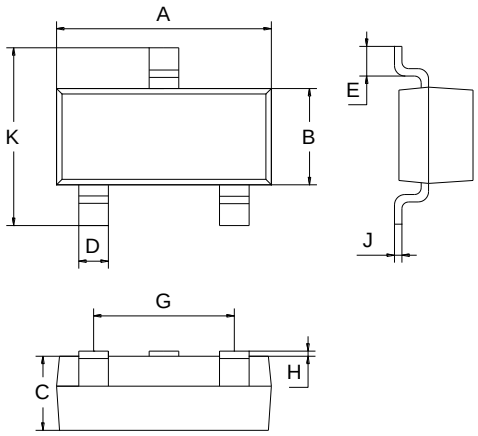


Fig 3 Power Derating Curve

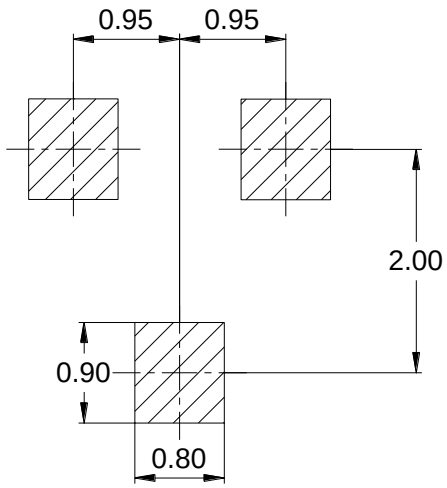
Package Outline Dimensions (Unit: mm)



SOT-23		
Dimension	**Min.**	**Max.**
A	2.70	3.10
B	1.10	1.50
C	0.9	1.1
D	0.3	0.5
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.05	0.15
K	2.20	2.60

Package Outline Dimensions (Unit: mm)

SOT-23



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