

Discription

The HAZ5B65-01F protects sensitive semiconductor components from damage or upset due to electrostatic discharge (ESD) and other voltage induced transient events. Excellent clamping capability, low leakage, low capacitance, and fast response time provide best in class protection on designs that are exposed to ESD.

It gives designer the flexibility to protect one bi-directional line in applications where arrays are not practical.



DFN0603-2L

Features

★ Transient protection for high-speed data lines IEC 61000-4-2(ESD) ±8kV (Contact) ±15kV (Air)

IEC 61000-4-4(EFT) 40A (5/50 ns)

★ Peak power dissipation: 100W (8/20us)

★ Working voltages: 5V

★ Ultra-small package (0.6mmx0.3mmx0.3mm)

★ Low capacitance: 0.55pF (Typical)

★ Low clamping voltage

★ Low leakage current



Circuit Diagram

Orderingin formation

Product ID	Pack	Qty(PCS)	
HAZ5B65-01F	DFN0603-2L	15000	

Absolute Ratings(Tamb = 25° C)

Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power (t _P = 8/20μs)	100	W
TL	Maximum lead temperature for soldering during 10s	260	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _{op}	Operating Temperature Range	-40 to +125	°C
T _j	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharge	±30	KV
	contact discharge	±30	1.0

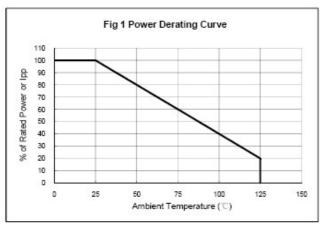


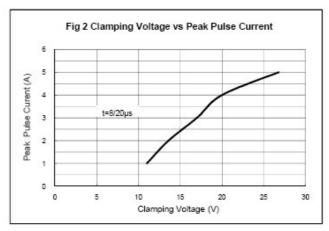
Electrical Characteristics

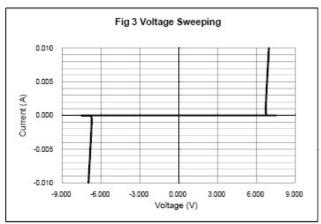
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
V _{RWM}	Reverse Working Voltage				5.0	٧
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA	6.0			V
I _R	Reverse Leakage Current	V _{RWM} = 5.0V			100	nA
Ve	Clamping Voltage	$I_{\text{RWM}}=1A,t_{\text{p}}=8/20\mu\text{s}$			13	V
		$I_{\text{RWM}} = 4A, t_{\text{P}} = 8/20 \mu \text{s}$			25	V
C¹	Junction Capacitance	$V_R = 0V$, $f = 1MHz$		0.55	0.7	pF

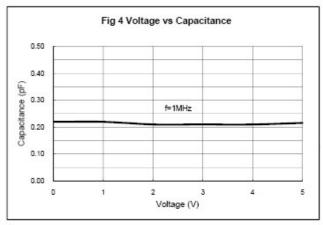


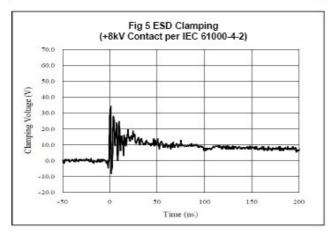
Typical Characteristics

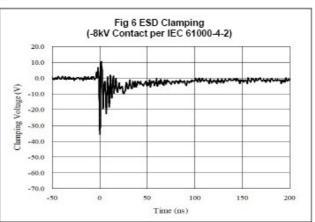






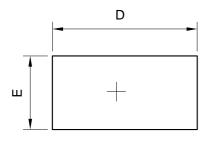


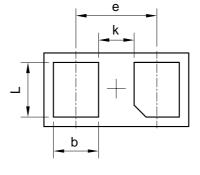






Outline And Dimensions





DFN0603-2L Dim Min Тур. Max 0.58 D 0.61 0.64 Е 0.28 0.31 0.34 0.34 0.20 0.23 0.26 b 0.16 0.19 0.22 0.25 0.28 0.31 k 0.12 0.15 0.18 All Dimensions in mm

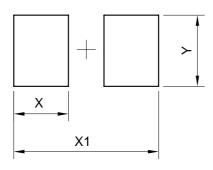
TOP VIEW

BOTTOM VVIEW



SSIDE VIEW

Soledering Footprint



DFN0603-2L			
DIM (mm)			
Χ	0.23		
X1	0.61		
Υ	0.30		



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