

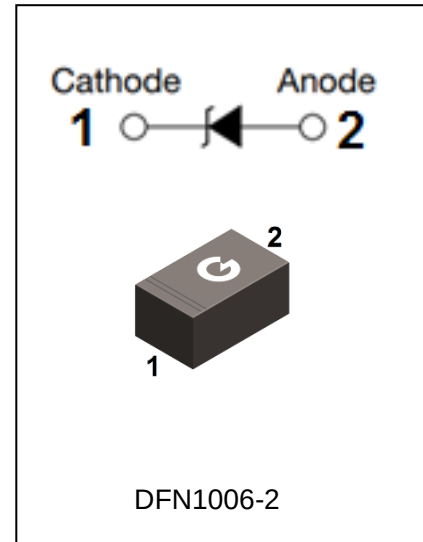
Single Line TVS Diode

GESD6V3DL

FEATURES

- Unidirection ESD protection of one line
- IEC61000-4-2; level 4(ESD)
- RoHS compliant with Halogen-free

HF



APPLICATIONS

- Computers and peripherals
- Audio and video equipment
- Cellular handsets and accessories
- Communication systems

ORDERING INFORMATION

Type No.	Marking	Package Code
GESD6V3DL	AF	DFN1006-2

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Limits	Unit
Electrostatic discharge voltage IEC61000-4-2(contact discharge)	V_{ESD}	30	kV
Electrostatic discharge voltage Machine Model	V_{ESD}	400	V
Human Body Model		8	kV
Reverse standoff voltage	V_{RWM}	6.3	V
Peak pulse power $t_p=8/20\mu s$	P_{PP}	375	W
Peak pulse current $t_p=8/20\mu s$	I_{PP}	30	A
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	400	°C/W
Thermal Resistance Junction to Lead	$R_{\theta JL}$	204	°C/W
Thermal Resistance Junction to Case	$R_{\theta JC}$	240	°C/W
Junction temperature	T_j	-55 ~ +125	°C
Storage temperature	T_{stg}	-55 ~ +150	°C

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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse breakdown voltage	V_{BR}	$I_R=1mA$	6.5		9	V
Reverse leakage current	I_R	$V_{RWM}=6.3V$	-	-	1	μA
Forward Voltage	V_F	$I_F=200mA$	-	-	1.2	V
Diode capacitance	C_d	$V_R=0V, f=1MHz$	-	-	300	pF
Clamping voltage (according to IEC6100-4-5, $t_p=8/20\mu s$)	V_C	$I_{PP}=24A$ $I_{PP}=30A$	-	-	12 14	V

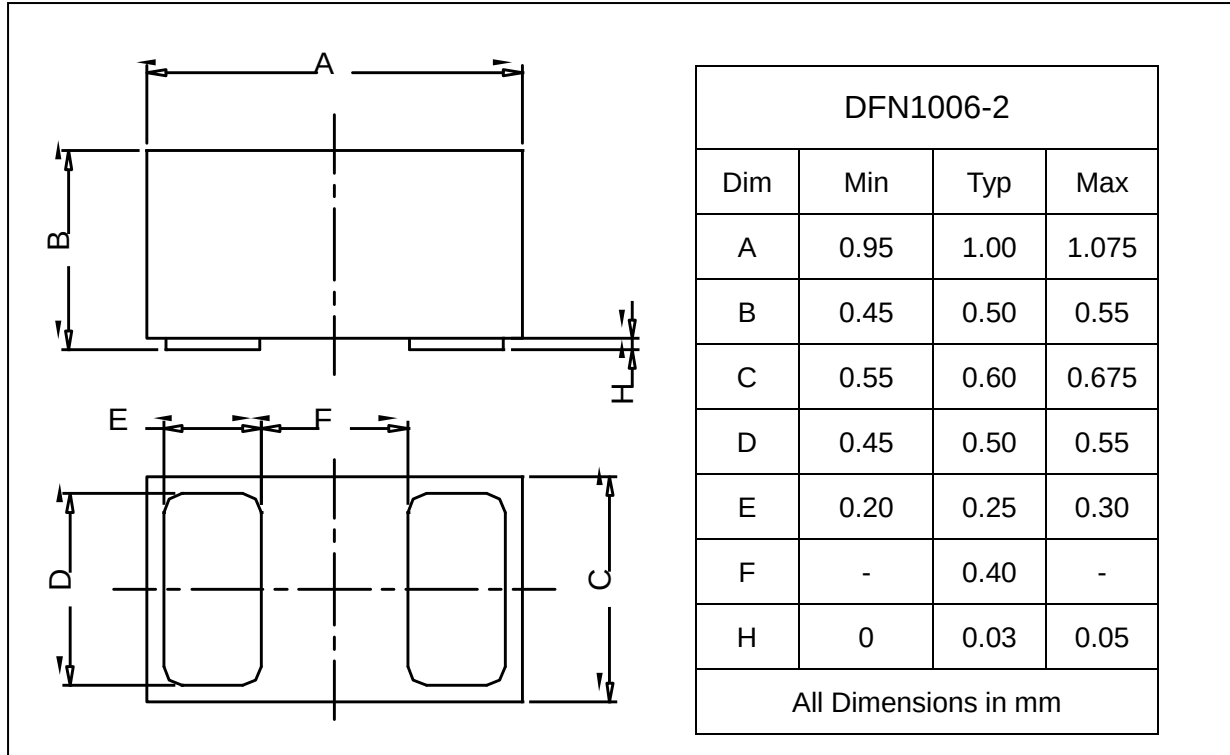
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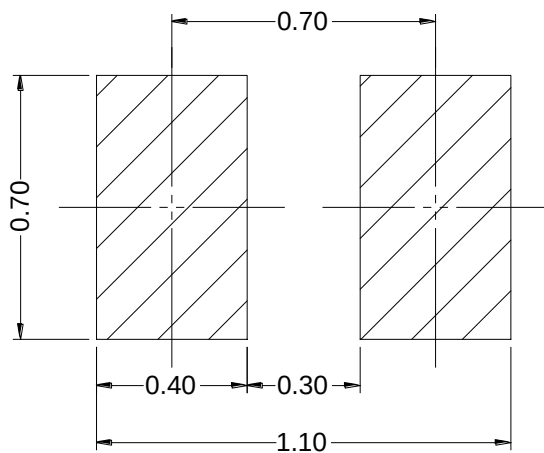
PACKAGE OUTLINE

Plastic surface mounted package

DFN1006-2



SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

Device	Package	Shipping
GESD6V3DL	DFN1006-2	5000 pcs / Tape & Reel