

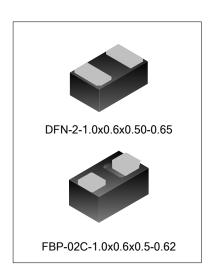
Single Channel Voltage Stabilized Transient Voltage Suppressor

General Description

GG2075FNG/FBG is the single channel voltage-stabilized transient voltage suppressor. It features high ESD, low leakage, fast response, and excellent voltage clamping capability.

Features

- Single array ESD protection structure
- Provides ESD protection to IEC61000-4-2(ESD):
 - ±30kV (air discharge)
 - ±30kV (contact discharge)
- Low clamping voltage
- Low operating voltage: 5V
- Reliable Silicon avalanche breakdown structure
- Small DFN1006 package



Applications

- * Mobile phone accessories;
- * Portable computer;
- * Digital Camera:
- * MP3/MP4/PMP.

Pin Configuration





Absolute Maximum Ratings

Ch	aracteristics	Symbol	Rating	Unit
Peak Pulse Power (8/20µs)		P _{PP}	107	W
Peak Pulse Current (8/20µs)		I _{PP}	8.7	А
Maximum ESD	IEC61000-4-2 (Air)	V _{ESD1}	±30	kV
Withstand Capability	IEC61000-4-2 (Contact)	V _{ESD2}	±30	kV
Operating Temperature Range		T _{opr}	-55 ~ +125	°C
Storage Temperature Range		T _{stg}	-55 ~ + 150	°C

Electrical Characteristics (Tamb=25°C)

Characteristics	Symbol	Conditions	Min.	Тур.	Max.	Unit
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	It=1mA	6.2			V
Reverse Leakage Current	I _R	V _{RWM} =5V; T=25°C			1	μA
Negative Clamping Voltage	V _{C1}	I _{PP} =8.7A, t _P =8/20µS			12.3	V
Capacitance	C_{J2}	V _R =0V, f=1MHz			65	pF



Typical Characteristics

Fig.1. ESD clamp voltage
Positive 8kV IEC61000-4-2 contact discharge

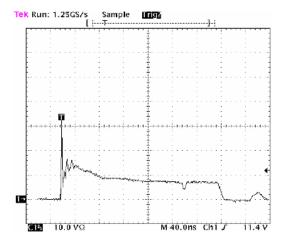
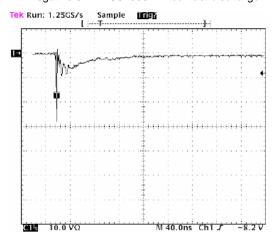
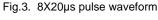
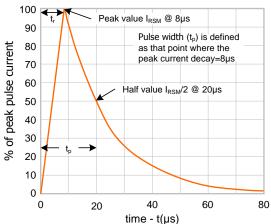


Fig. 2. ESD clamp voltage Negative 8kV IEC61000-4-2 contact discharge





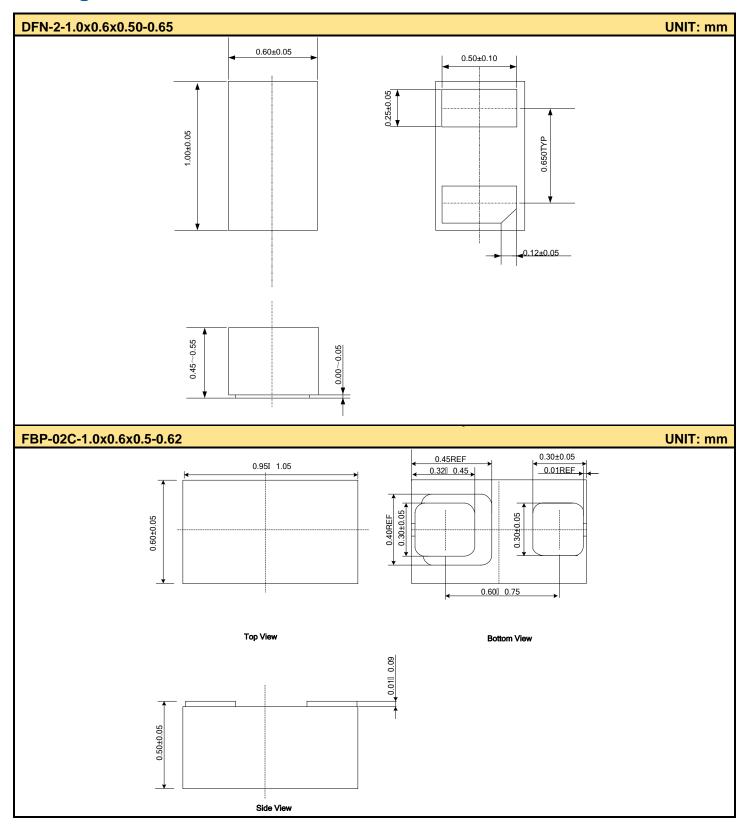


Ordering Information

Part No.	Package	Marking	Material	Packing
GG2075FNGTR	DFN-2-1.0x0.6x0.50-0.65	В	Halogen free	Tape&Reel
GG2075FBGTR	FBP-02C-1.0x0.6x0.5-0.62	В	Halogen free	Tape&Reel



Package Outline







Single Channel Voltage Stabilized Transient Voltage Suppressor

Disclaimer:

The information furnished in this data sheet is believed to be accurate and reliable. However, no responsibility is assumed by Golden Gate Integrated Circuits (GGIC) for its use. GGIC reserves the right to change circuitry and specifications at any time without notification to the customer.

- Golden Gate Integrated Circuits reserves the right to make changes to the information herein for the improvement of the design and
 performance without further notice! Customers should obtain the latest relevant information before placing orders and should verify that
 such information is complete and current.
- All semiconductor products malfunction or fail with some probability under special conditions. When using Golden Gate Integrated Circuits
 products in system design or complete machine manufacturing, it is the responsibility of the buyer to comply with the safety standards
 strictly and take essential measures to avoid situations in which a malfunction or failure of such Golden Gate Integrated Circuits products
 could cause loss of body injury or damage to property.
- Golden Gate Integrated Circuits (GGIC) Products are not designed or authorized for use as components in life support appliances, devices or systems where malfunction of a product can reasonably be expected to result in personal injury. Life support devices or systems are devices or systems that (a) are intended for surgical implant into the body or (b) support or sustain life, and whose failure to perform can be reasonably expected to result in a significant injury to the user. A Purchaser's use or sale of GGIC Products for use in life support appliances, devices, or systems is a Purchaser's own risk and Purchaser agrees to fully indemnify GGIC for any damages resulting from such use or sale.