

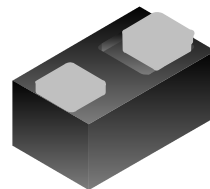
SINGLE ARRAY VOLTAGE-STABILIZED TRANSIENT VOLTAGE SUPPRESSOR

DESCRIPTION

SU2075FBG is the single array voltage-stabilized transistor voltage, 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) :
 $\pm 15\text{kV}$ (air discharge)
 $\pm 15\text{kV}$ (contact discharge);
- * Low clamping voltage;
- * Low operating voltage: 5V;
- * Reliable Silicon avalanche breakdown structure.



FBP-02C-1.0x0.6x0.5-0.62

APPLICATIONS

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

ORDERING INFORMATION

Part No.	Package	Marking	Material	Packing
SU2075FBGTR	FBP-02C-1.0x0.6x0.5-0.62	B	Halogen free	Tape&Reel

PIN CONFIGURATION



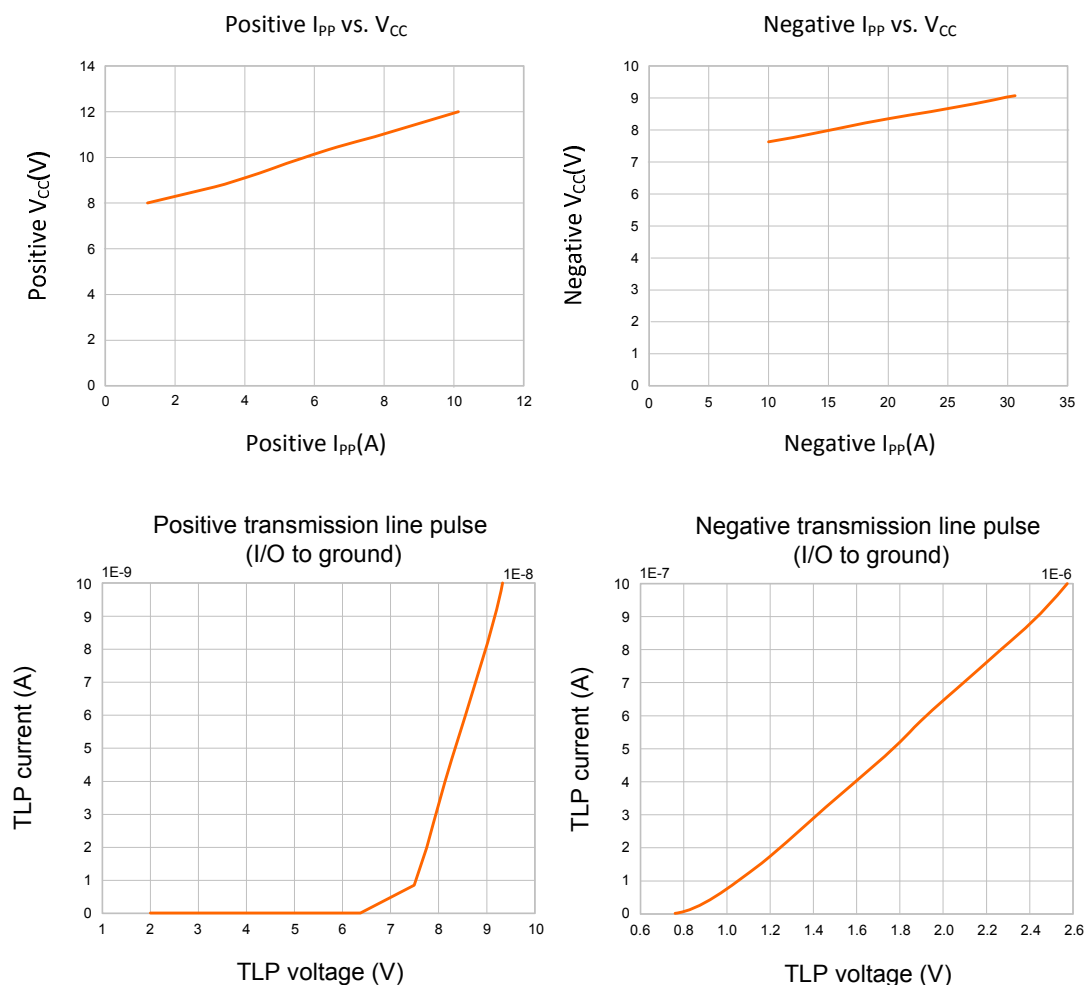
ABSOLUTE MAXIMUM RATINGS

Characteristics	Symbol	Ratings	Unit
Peak Pulse Power (8/20 μ s)	P _{PP}	107	W
Peak Pulse Current (8/20 μ s)	I _{PP}	8.7	A
Maximum ESD	V _{ESD1}	± 15	kV
Withstand Capability	V _{ESD2}	± 15	kV
Operating Temperature Range	T _{opr}	-55 ~ +125	°C
Storage Temperature Range	T _{stg}	-55 ~ +150	°C

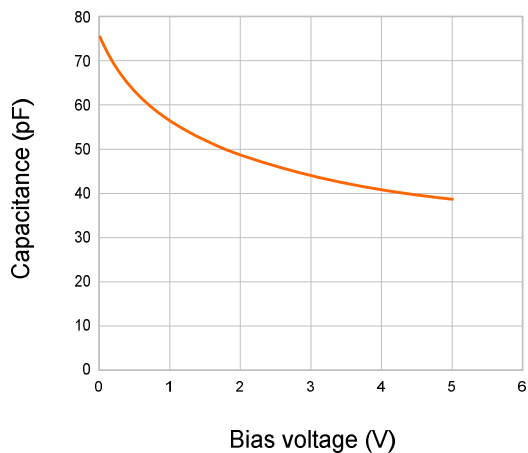
ELECTRICAL CHARACTERISTICS (T_{amb}=25°C)

Characteristics	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Working Voltage	V _{RWM}		--	--	5	V
Reverse Breakdown Voltage	V _{BR}	I _t =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 ELECTRICAL CHARACTERISTIC CURVES



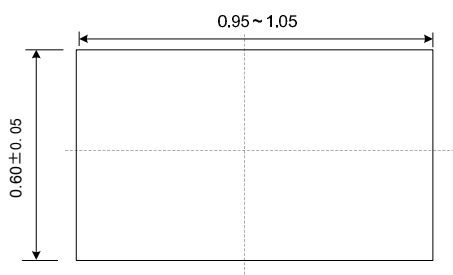
Typical curve C_{IN} vs. V_{IN}



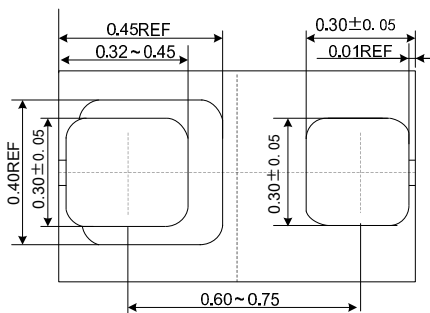
PACKAGE OUTLINE

FBP-02C-1.0x0.6x0.5-0.62

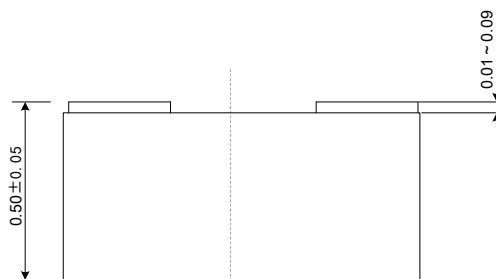
UNIT: mm



Top View



Bottom View



Side View

Disclaimer:

- Silan 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 Silan 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 Silan products could cause loss of body injury or damage to property.
- Silan will supply the best possible product for customers!

ATTACHMENT**Revision History**

Date	REV	Description	Page
2012.11.15	1.0	Initial release	
2014.08.04	1.1	Modify the typical electrical characteristic curves	