

KEC

SEMICONDUCTOR
TECHNICAL DATA

PG03DBVSC
TVS Diode for ESD
Protection in Portable Electronics

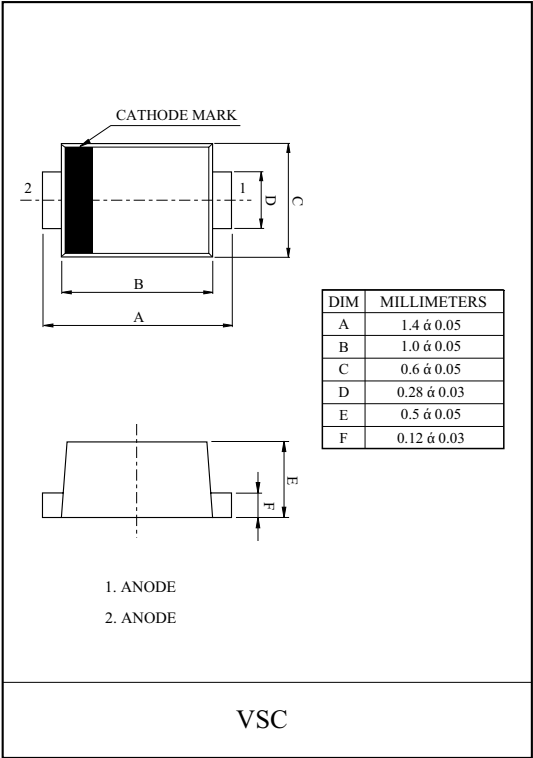
Protection in Portable Electronics Applications.

FEATURES

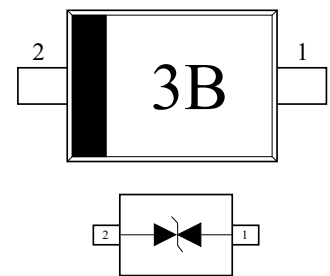
- 50 Watts peak pulse power (tp=8/20µs)
- Transient protection for data lines to
IEC 61000-4-2(ESD) 15kV(Air), 8kV(Contact)
IEC 61000-4-4(EFT) 40A(tp=5/50ns)
IEC 61000-4-5(Lightning) 5A(tp=8/20µs)
- Bidirectional Type Pin Configuration Structure.
- Small package for use in portable electronics.
- Suitable replacement for Multi-Layer Varistors in ESD protection applications.
- Protects one I/O or power line.
- Low clamping voltage.
- Low leakage current.

APPLICATIONS

- Cell phone handsets and accessories.
- Microprocessor based equipment.
- Personal digital assistants (PDA's)
- Notebooks, desktops, & servers.
- Portable instrumentation.
- Pagers peripherals.



Marking



MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Junction Temperature	T _j	-55 ~150	°C
Storage Temperature	T _{stg}	-55 ~150	°C

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	3.3	V
Zener Voltage	V _Z	I _t =1mA	4.2	-	6.2	V
Reverse Leakage Current	I _R	V _{RWM} =3.3V	-	-	20	µA
Junction Capacitance	C _J	V _R =0V, f=1MHz	-	-	25	pF