

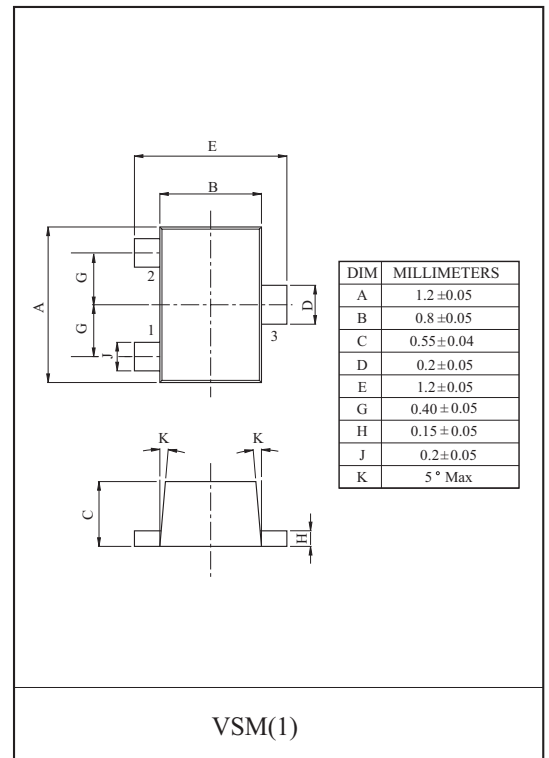
Protection in Portable Electronics Applications.

FEATURES

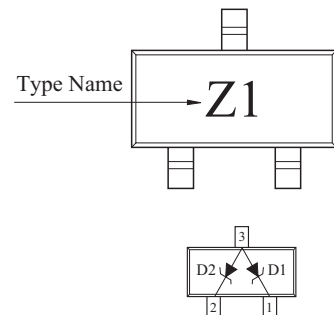
- Transient protection for data lines to IEC 61000-4-2(ESD) 20kV(Air/Contact)
- Small package for use in portable electronics.
- Suitable replacement for Multi-Layer Varistors in ESD protection applications.
- Protects one I/O or power line.
- Low clamping voltage.
- Low leakage current.

APPLICATIONS

- USB 2.0, 10/100/1000 Ethernet, FireWire, DVI, HDMI, S-ATA
- Mobile Communication
- Consumer Products (STB, MP3, DVD, DSC...)
- LCD-Display, Camera
- Notebooks and desktop computers, peripherals



Marking



MAXIMUM RATING (Ta=25 °C)

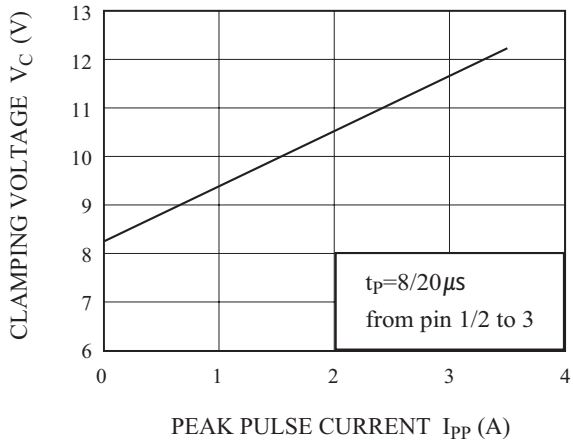
CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Current (tp=8/20 μs)	I _{PP}	3	A
Operating Temperature Range	T _{OP}	-40 125	
Storage Temperature	T _{stg}	-55 150	

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

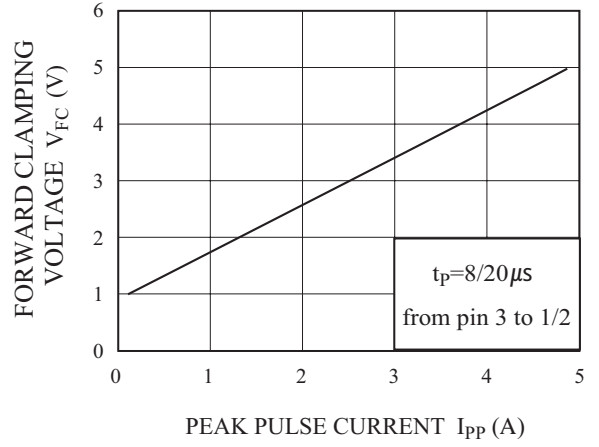
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5.3	V	
Reverse Breakdown Voltage	V _{BR}	I _t =1mA	6	-	-	V	
Reverse Leakage Current	I _R	V _{RWM} =5.3V	-	-	50	nA	
Clamping Voltage	V _C	I _{PP} =1A, t _p =8/20 μs	-	10	13	V	
		I _{PP} =3A, t _p =8/20 μs	-	12	15		
Junction Capacitance	C _J	V _R =0V, f=1MHz	from pin 1/2 to 3	-	0.4	0.6	pF
			from pin 1 to 2, Pin 3 not connected	-	0.2	0.4	

PG05TAVSM

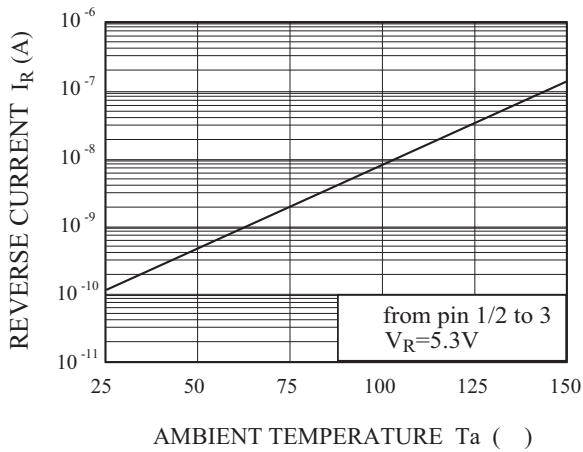
CLAMPING VOLTAGE



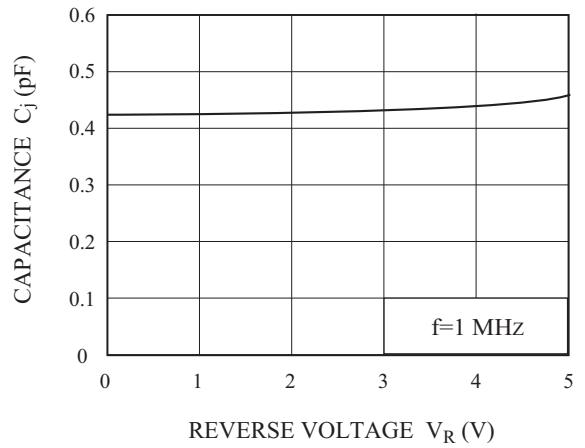
FORWARD CLAMPING VOLTAGE



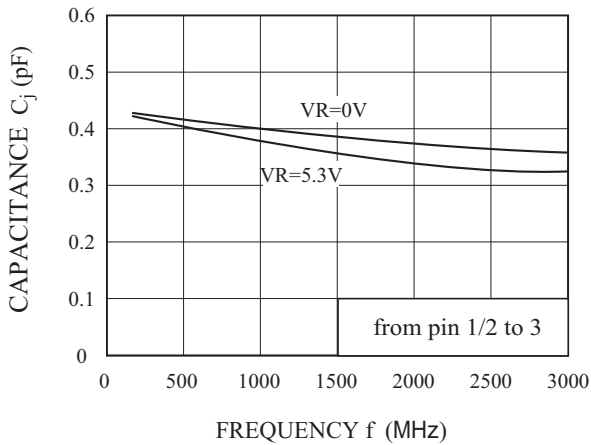
REVERSE CURRENT



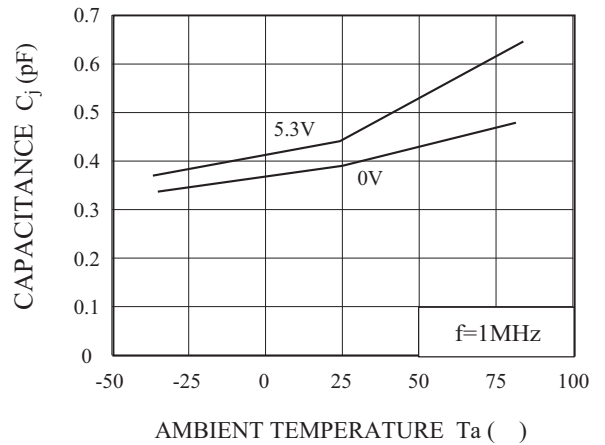
CAPACITANCE



LINE CAPACITANCE



LINE CAPACITANCE



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