

## STANDARD CAPACITANCE TVS ARRAY

## APPLICATIONS

- ✓ RS-485 Transceivers
- ✓ Network Interfaces
- ✓ Wireless Systems
- ✓ Portable Electronics

## IEC COMPATIBILITY (EN61000-4)

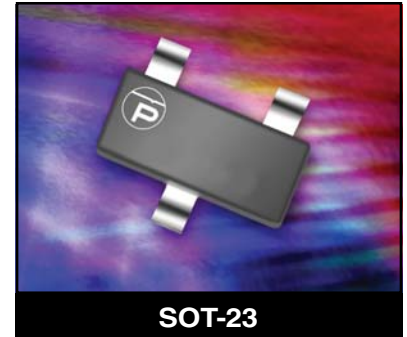
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns
- ✓ 61000-4-5 (Surge): 24A, 8/20 $\mu$ s - Level 2(Line-Ground) & Level 3(Line-Line)

## FEATURES

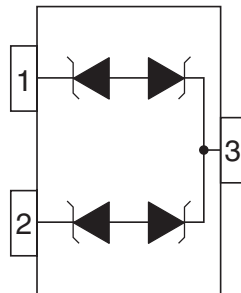
- ✓ ESD Protection > 40 kilovolts
- ✓ 600 Watts Peak Pulse Power per Line (tp = 8/20 $\mu$ s)
- ✓ Asymmetrical Data Line Protection
- ✓ RoHS Compliant

## MECHANICAL CHARACTERISTICS

- ✓ Molded JEDEC SOT-23 Package
- ✓ Weight 8 milligrams (Approximate)
- ✓ Available in Lead-Free Pure-Tin Plating(Annealed)
- ✓ Solder Reflow Temperature:  
Pure-Tin - Sn, 100: 260-270°C
- ✓ Consult Factory for Leaded Device Availability
- ✓ Flammability Rating UL 94V-0
- ✓ 8mm Tape and Reel Per EIA Standard 481
- ✓ Marking: Marking Code



## PIN CONFIGURATION



# PSM712

## DEVICE CHARACTERISTICS

### MAXIMUM RATINGS @ 25°C Unless Otherwise Specified

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power ( $t_p = 8/20\mu\text{s}$ ) - See Figure 1	$P_{PP}$	600	Watts
Operating Temperature	$T_L$	-55 to 150	°C
Storage Temperature	$T_{STG}$	-55 to 150	°C

### ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified

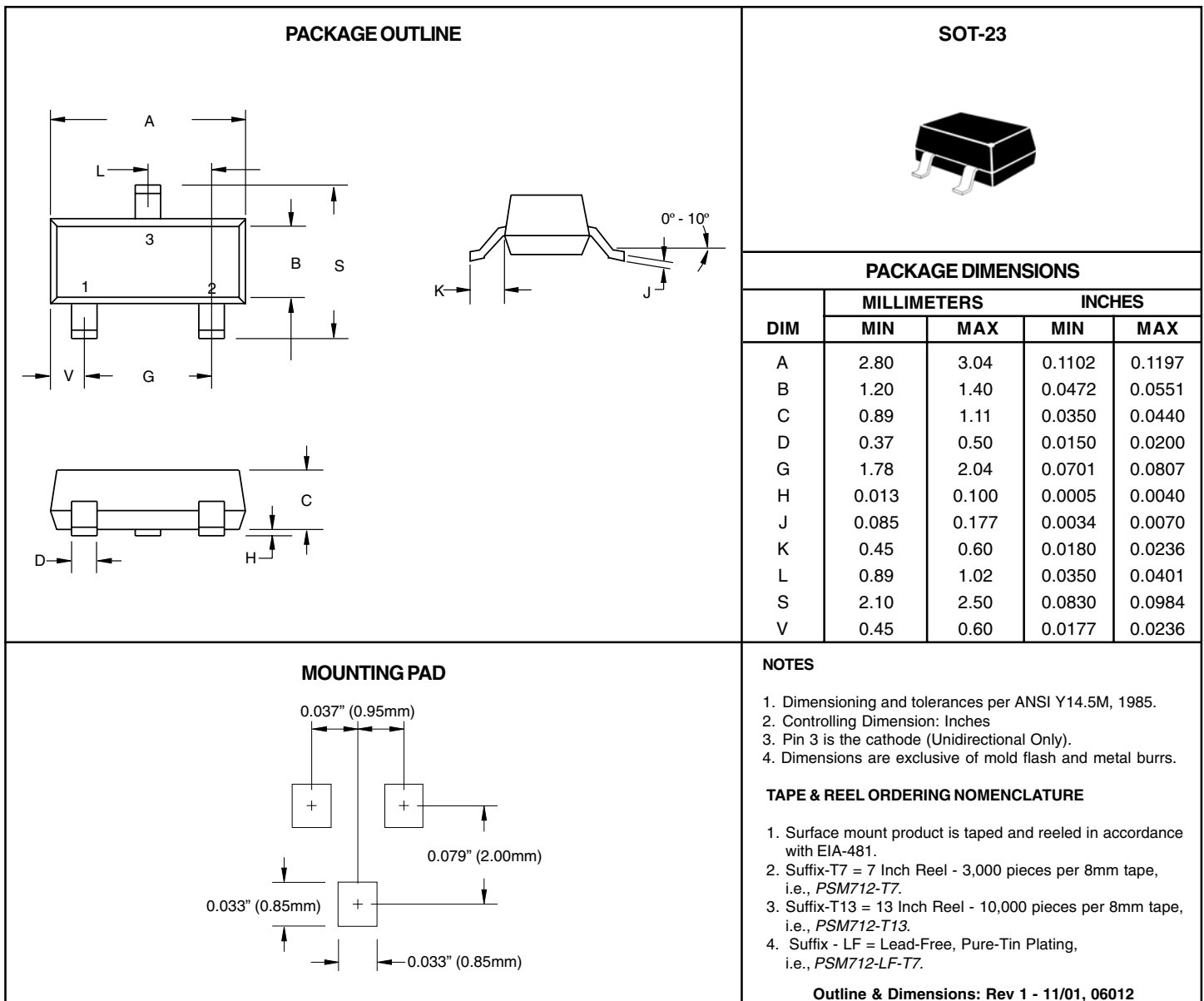
PART NUMBER (See Note 1)	DEVICE MARKING CODE (See Note 2)	RATED STAND-OFF VOLTAGE $V_{WM}$ VOLTS	MINIMUM BREAKDOWN VOLTAGE @ 1mA $V_{(BR)}$ VOLTS	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @ $I_P = 1A$ $V_C$ VOLTS	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @ 8/20 $\mu\text{s}$ $V_C @ I_{PP}$	MAXIMUM LEAKAGE CURRENT @ $V_{WM}$ $I_D$ $\mu\text{A}$	TYPICAL CAPACITANCE @ 0V, 1 MHz C pF
Pin 3-1 & 3-2	712	7.0	7.5	11.0	17V @ 34A	20	75
Pin 1-3 & 2-3	712	12.0	13.3	19.0	30V @ 30A	1	75

**Note 1:** For 7V, pin 3 is positive. For 12V, pins 1 and 2 are positive.

**Note 2:** Marking code applies to same device.

# PSM712

## SOT-23 PACKAGE OUTLINE & DIMENSIONS



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