

STEERING DIODE ARRAY

**APPLICATIONS**

- ✓ USB Interface Ports
- ✓ Cellular Phones
- ✓ Video
- ✓ Handheld Electronics
- ✓ Personal Computers

**IEC COMPATIBILITY (EN61000-4)**

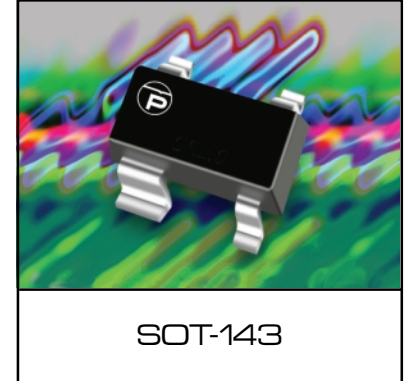
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns

**FEATURES**

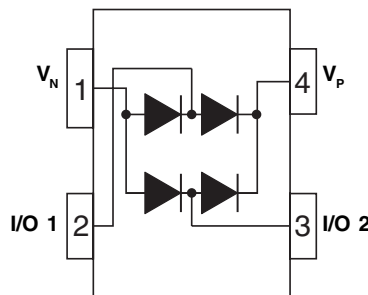
- ✓ ESD Protection > 40 kilovolts
- ✓ 225 Milliwatt Continuous Power Dissipation
- ✓ Provides Two (2) Lines of Protection
- ✓ **LOW LEAKAGE CURRENT < 1.0 $\mu$ A**
- ✓ **ULTRA LOW CAPACITANCE: 3pF Typical**

**MECHANICAL CHARACTERISTICS**

- ✓ Molded JEDEC SO-143
- ✓ Weight 35 milligrams (Approximate)
- ✓ Flammability rating UL 94V-0
- ✓ 8mm Tape and Reel Per EIA Standard 481
- ✓ Marking: Marking Code



**PIN CONFIGURATION**



## DEVICE CHARACTERISTICS

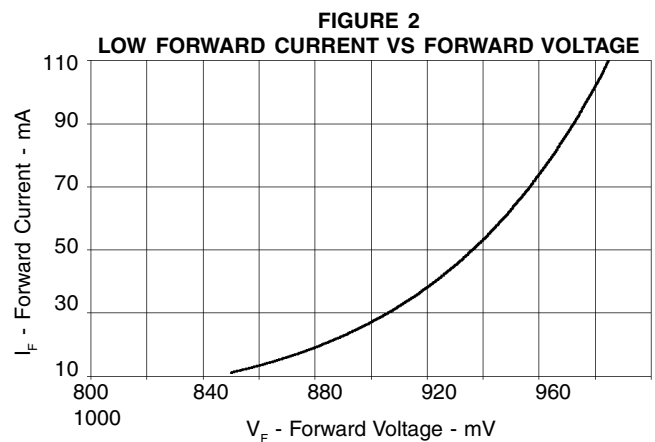
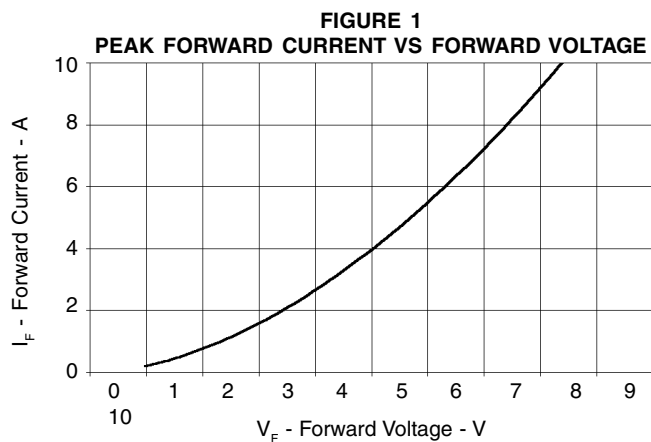
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Operating Temperature	$T_J$	-55°C to 150°C	°C
Storage Temperature	$T_{STG}$	-55°C to 150°C	°C
Continuous Power Dissipation	$P_{PC}$	225	mW
Repetitive Peak Forward Current @ $t_p=5\mu s, F=50kHz$ (Pin 2 - 3)	$I_{FRM}$	700	mA

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified					
PART NUMBER	DEVICE MARKING CODE	REPETITIVE PEAK REVERSE VOLTAGE (See Note 1) @ 10 $\mu A$ $V_{RRM}$ VOLTS	MAXIMUM REVERSE LEAKAGE CURRENT (See Note 2) $V_{RRM}$ @ 5V $I_R$ $\mu A$	MAXIMUM DIODE FORWARD VOLTAGE @ 20mA $V_F$ VOLTS	MAXIMUM CAPACITANCE (See Note 3) (Between Line and Ground) $C_j$ pF
USB004	PSA	20	1	0.95	6

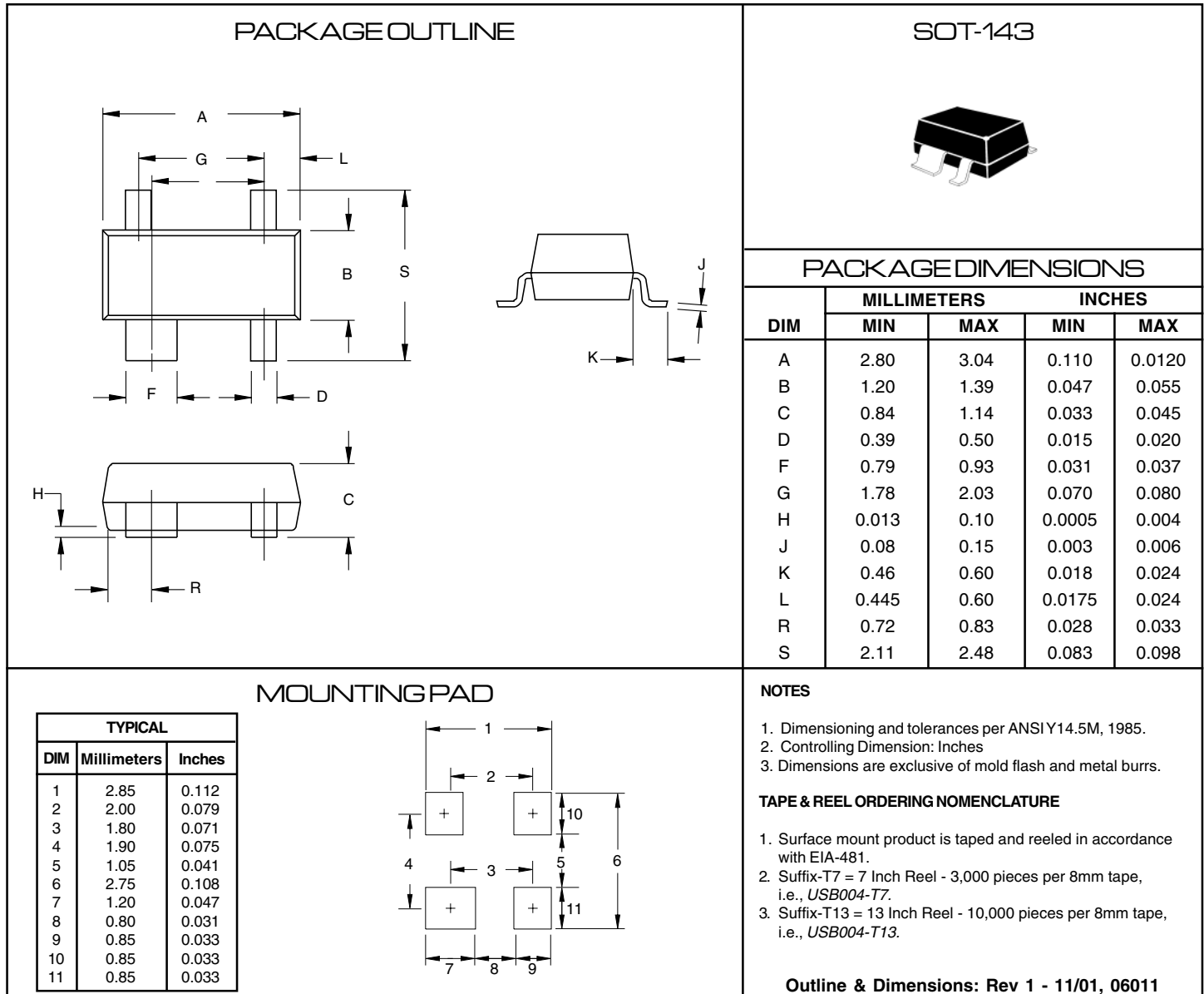
**Note 1:**  $V_P - V_N = 20V$ .

**Note 2:**  $V_P - V_N = 5.5V$ .

**Note 3:**  $V_P = 5V, f = 1MHz, V_{IO} = 2.5V, V_N = 0V$



## PACKAGE OUTLINE & DIMENSIONS



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