

STEERING DIODE ARRAY

APPLICATIONS

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

IEC COMPATIBILITY (EN61000-4)

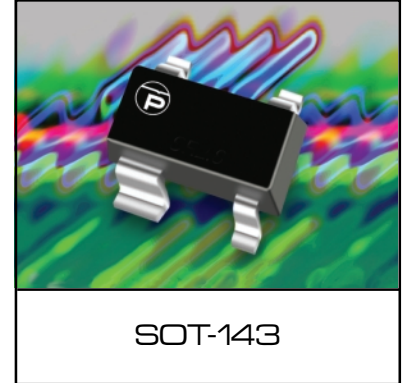
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns

FEATURES

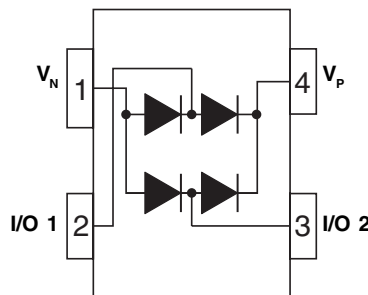
- ✓ ESD Protection > 40 kilovolts
- ✓ 225 Milliwatt Continuous Power Dissipation
- ✓ Provides Two (2) Lines of Protection
- ✓ **LOW LEAKAGE CURRENT < 1.0μA**
- ✓ **ULTRA LOW CAPACITANCE: 3pF Typical**

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

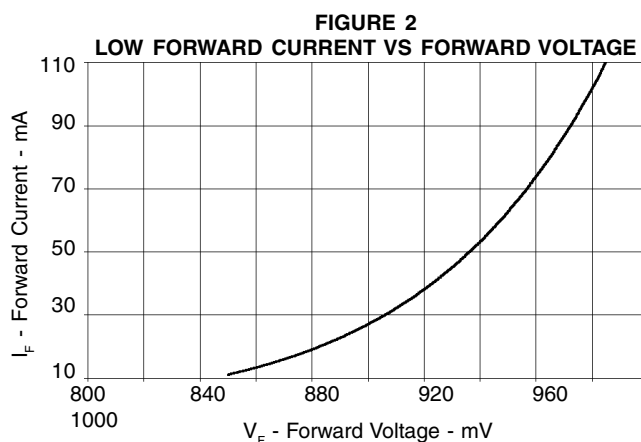
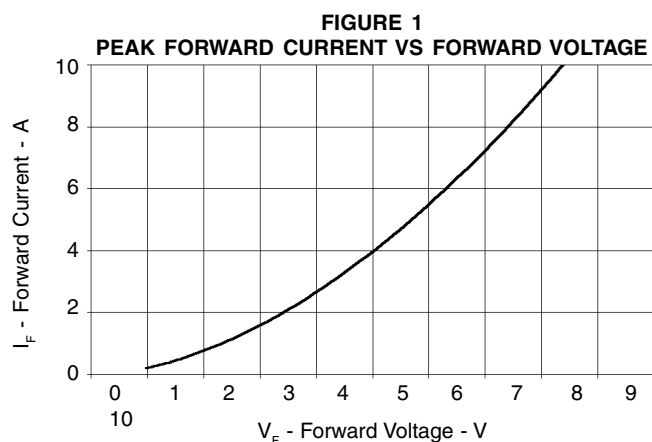
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Operating Temperature	T_J	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C
Continuous Power Dissipation	P_{PC}	225	mW
Repetitive Peak Forward Current @ $t_p=5\mu s$, $F=50kHz$ (Pin 2 - 3)	I_{FRM}	700	mA

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified					
PART NUMBER	DEVICE MARKING CODE	REPETITIVE PEAK REVERSE VOLTAGE (See Note 1) @ 10 μA V_{RRM} VOLTS	MAXIMUM REVERSE LEAKAGE CURRENT (See Note 2) V_{RRM} @ 5V I_R μA	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

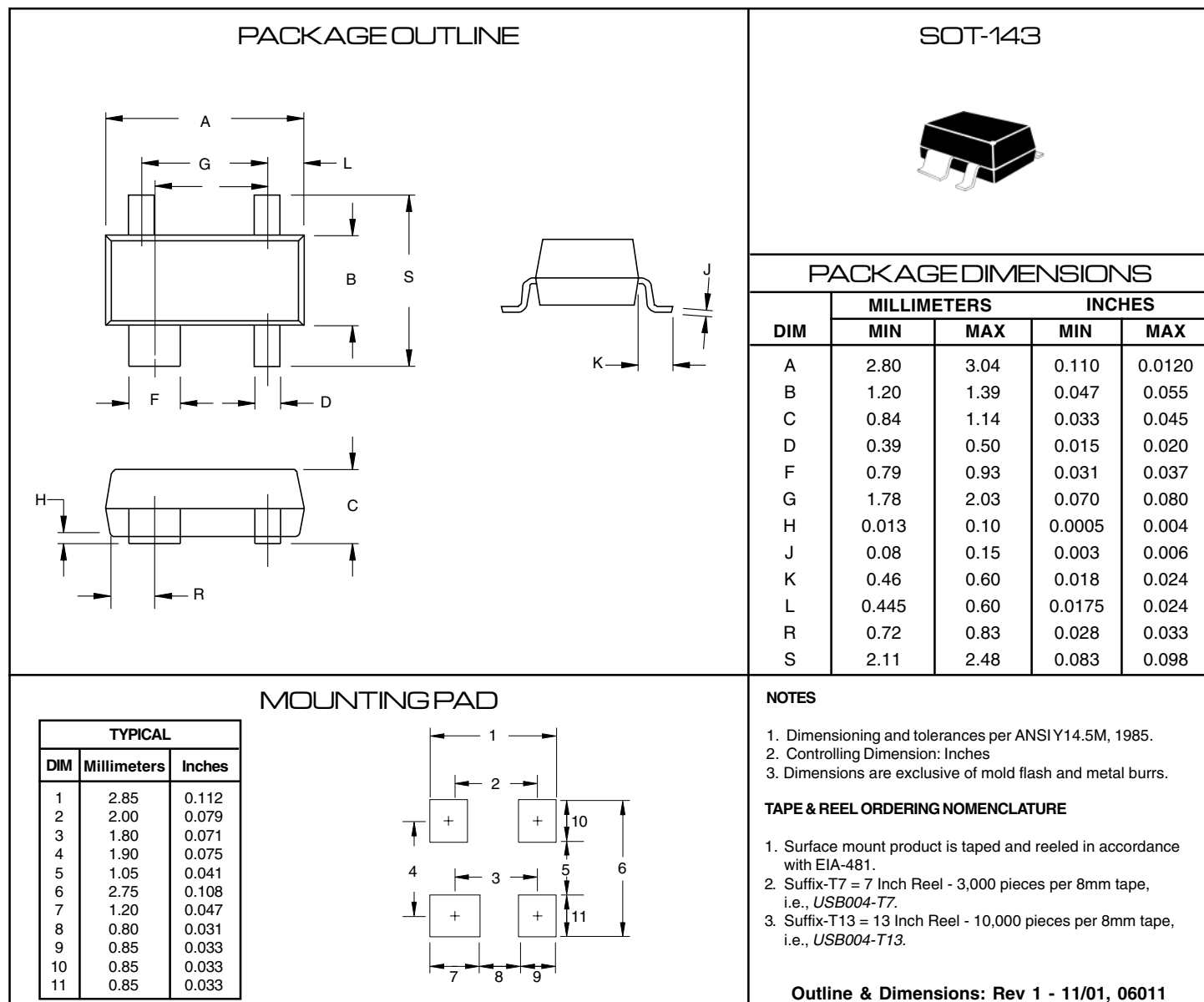
Note 1: $V_P - V_N = 20V$.

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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