

# SOT-223 Devices

Maximum die size 90 mil x 90 mil

## Switching Transistors

Pinout: 1-Base, 2-Collector, 3-Emitter, 4-Collector

Device	Marking	$t_{on}$	$t_{off}$	$V_{(BR)CEO}$	$h_{FE}$		$f_T$	
					Min	Max	@ $I_C$ (mA)	Min (MHz)
<b>NPN</b>								
PZT2222A	2222A	35	285	40	100	300	20	300
<b>PNP</b>								
PZT2907A	2907A	45	100	60	100	300	50	200

## Darlingtons

Pinout: 1-Base, 2-Collector, 3-Emitter, 4-Collector

Device	Marking	$V_{(BR)CEO}$	$V_{CE(sat)}$ Max (V)	$h_{FE}$		@ $I_C$ (mA)
				Min	Max	
<b>NPN</b>						
PZTA14	ZTA14	30	1.5	20k	—	100
BSP52	BSP52	80	1.3	2k	—	500
<b>PNP</b>						
PZTA64	ZTA64	30	1.5	20k	—	100

## High-Voltage Transistors

Pinout: 1-Base, 2-Collector, 3-Emitter, 4-Collector

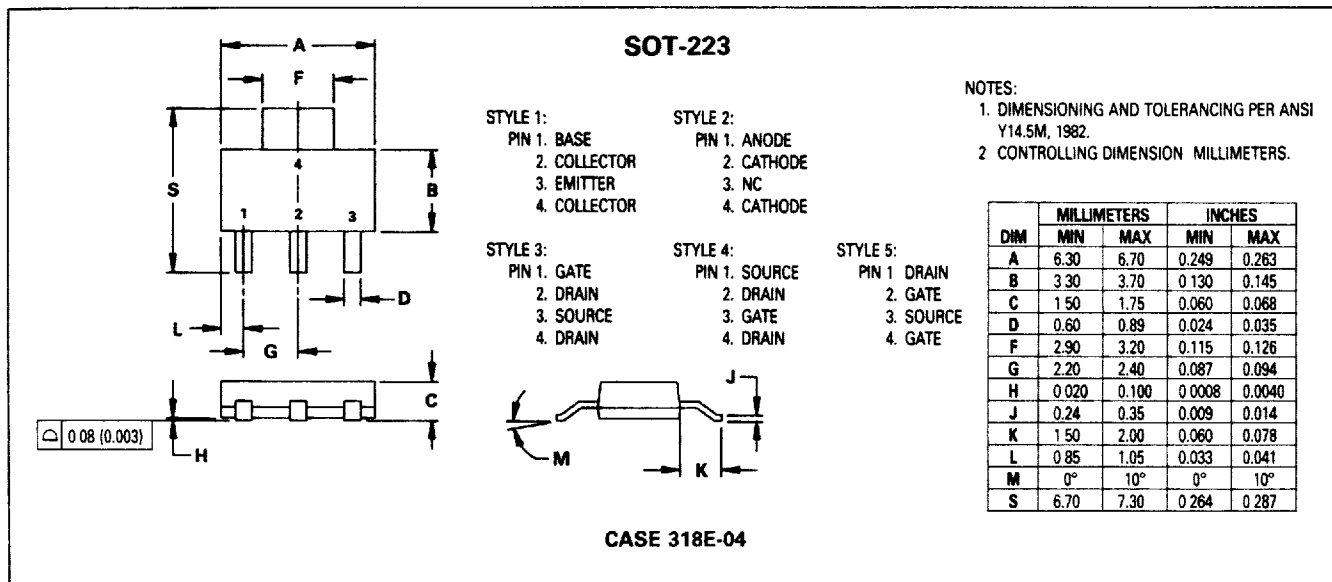
Device	Marking	$V_{(BR)CEO}$	$h_{FE}$		$f_T$	
			Min	Max	@ $I_C$ (mA)	Min (MHz)
<b>NPN</b>						
PTZA42	TZA42	300	40	—	10	50
BF720	BF720	250	50	—	10	60
<b>PNP</b>						
PTZA92	TZA92	300	40	—	10	50
BF721	BF721	250	50	—	10	60
PZTA96	ZTA96	450	50	150	10	50
BSP16	—	300	30	150	10	15

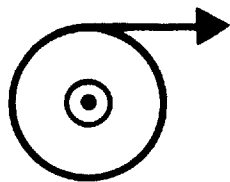
## Tuning Diode

Pinout: 1-Anode, 2-Cathode, 3-NC, 4-Cathode

Device	Marking	$V_{(BR)R}$		$C_T$			Capacitance Ratio		Q			$I_R$	
		Min (V)	@ $I_R$ ( $\mu A$ )	Min (pF)	Max (pF)	@ $V_R$ (V)	Min	Max	Typ	@ $V_R$ (V)	& f (MHz)	Max ( $\mu A$ )	@ $V_R$ (V)
MV7005	V7005	15	10	400	520	1	12	—	300	1	1	0.1	9

## Package Dimensions





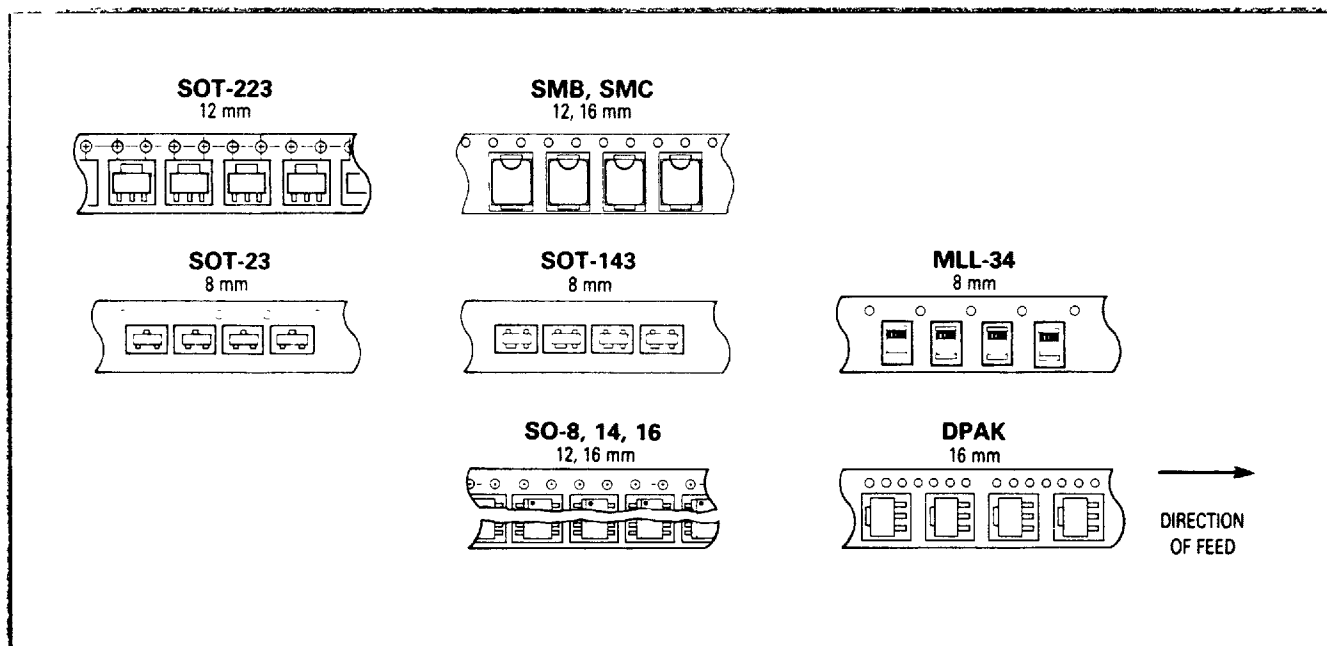
# Tape and Reel

## Discrete Products

Embossed Tape and Reel is used to facilitate automatic pick and place equipment feed requirements. The tape is used as the shipping container for various products and requires a minimum of handling. The antistatic/conductive tape provides a secure cavity for the product when sealed with the "peel-back" cover tape.

- Two Reel Sizes Available (7" and 13")
- Used For Automatic Pick and Place Feed Systems
- Minimizes Product Handling
- EIA 481A
- MLL-34, SOT-23, SOT-143 in 8 mm Tape
- SO-8, SOT-223, SMB in 12 mm Tape
- DPAK, SO-14, SO-16, SMC in 16 mm Tape

Use the standard device title and add the required suffix as listed in the option table below. Note that the individual reels have a finite number of devices depending on the type of product contained in the tape. Also note the minimum lot size is one full reel for each line item, and orders are required to be in increments of the single reel quantity. Minimum order \$200.00/line-line.



## TAPE AND REEL ORDERING INFORMATION

Package	Tape Width (mm)	Reel Size (inch)	Devices Per Reel and Minimum Order Quantity	Device Suffix
SOT-23	8	7	3,000	T1
	8	13	10,000	T3
SOT-143	8	7	3,000	T1
	8	13	10,000	T3
MLL-34	8	7	2,000	T1
	8	13	5,000	T3
SOT-223	12	7	1,000	T1
	12	13	4,000	T3
SMB	12	13	2,500	T3
SO-8	12	7	500	R1
	12	13	2,500	R2
SO-14	16	7	500	R1
	16	13	2,500	R2
SO-16	16	7	500	R1
	16	13	2,500	R2
DPAK	16	13	1,800	RL
SMC	16	13	2,500	T3