

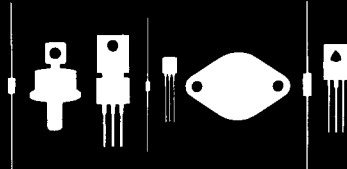
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145 Adams Avenue  
Hauppauge, New York 11788



MPS3392  
MPS3393  
MPS3394  
MPS3395

NPN SILICON SIGNAL TRANSISTORS

JEDEC TO-92 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR MPS3392 Series types are Silicon NPN Transistors designed for small signal amplifier and low power audio applications.

## MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$ )

	<u>SYMBOL</u>		<u>UNIT</u>
Collector-Base Voltage	$V_{CB0}$	25	V
Collector-Emitter Voltage	$V_{CE0}$	25	V
Emitter-Base Voltage	$V_{EB0}$	5.0	V
Collector-Current	$I_C$	100	mA
Power Dissipation	$P_D$	625	mW
Operating and Storage Junction Temperature	$T_J, T_{stg}$	-65 TO +150	$^{\circ}\text{C}$
Thermal Resistance	$\theta_{JA}$	0.2	$^{\circ}\text{C}/\text{mW}$

## ELECTRICAL CHARACTERISTICS ( $T_A=25^{\circ}\text{C}$ )

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>MAX</u>	<u>UNIT</u>
$I_{CB0}$	$V_{CB}=18\text{V}$		0.1	$\mu\text{A}$
$I_{EB0}$	$V_{EB}=5.0\text{V}$		0.1	$\mu\text{A}$
$BV_{CE0}$	$I_C=1.0\text{mA}$	25		V
$h_{FE}$	$V_{CE}=4.5\text{V}, I_C=2.0\text{mA}$ (MPS3392)	150	300	
$h_{FE}$	$V_{CE}=4.5\text{V}, I_C=2.0\text{mA}$ (MPS3393)	90	180	
$h_{FE}$	$V_{CE}=4.5\text{V}, I_C=2.0\text{mA}$ (MPS3394)	55	110	
$h_{FE}$	$V_{CE}=4.5\text{V}, I_C=2.0\text{mA}$ (MPS3395)	150	500	
$h_{fe}$	$V_{CE}=4.5\text{V}, I_C=2.0\text{mA}, f=1.0\text{kHz}$ (MPS3392)	150	500	
$h_{fe}$	$V_{CE}=4.5\text{V}, I_C=2.0\text{mA}, f=1.0\text{kHz}$ (MPS3393)	90	400	
$h_{fe}$	$V_{CE}=4.5\text{V}, I_C=2.0\text{mA}, f=1.0\text{kHz}$ (MPS3394)	55	300	
$h_{fe}$	$V_{CE}=4.5\text{V}, I_C=2.0\text{mA}, f=1.0\text{kHz}$ (MPS3395)	150	800	
$C_{ob}$	$V_{CB}=10\text{V}, f=1.0\text{MHz}$		3.5	pF