

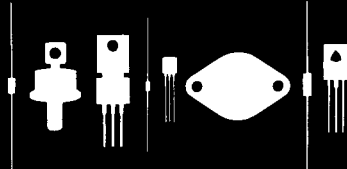
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145 Adams Avenue  
Hauppauge, New York 11788



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<sub>A</sub>=25°C)

	<u>SYMBOL</u>		<u>UNIT</u>
Collector-Base Voltage	V <sub>CB0</sub>	25	V
Collector-Emitter Voltage	V <sub>CEO</sub>	25	V
Emitter-Base Voltage	V <sub>EB0</sub>	5.0	V
Collector-Current	I <sub>C</sub>	100	mA
Power Dissipation	P <sub>D</sub>	625	mW
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 TO +150	°C
Thermal Resistance	θ <sub>JA</sub>	0.2	°C/mW

ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C)

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>MAX</u>	<u>UNIT</u>
I <sub>CB0</sub>	V <sub>CB</sub> =18V		0.1	μA
I <sub>EB0</sub>	V <sub>EB</sub> =5.0V		0.1	μA
BV <sub>CEO</sub>	I <sub>C</sub> =1.0mA	25		V
h <sub>FE</sub>	V <sub>CE</sub> =4.5V, I <sub>C</sub> =2.0mA (MPS3392)	150	300	
h <sub>FE</sub>	V <sub>CE</sub> =4.5V, I <sub>C</sub> =2.0mA (MPS3393)	90	180	
h <sub>FE</sub>	V <sub>CE</sub> =4.5V, I <sub>C</sub> =2.0mA (MPS3394)	55	110	
h <sub>FE</sub>	V <sub>CE</sub> =4.5V, I <sub>C</sub> =2.0mA (MPS3395)	150	500	
h <sub>fe</sub>	V <sub>CE</sub> =4.5V, I <sub>C</sub> =2.0mA, f=1.0kHz (MPS3392)	150	500	
h <sub>fe</sub>	V <sub>CE</sub> =4.5V, I <sub>C</sub> =2.0mA, f=1.0kHz (MPS3393)	90	400	
h <sub>fe</sub>	V <sub>CE</sub> =4.5V, I <sub>C</sub> =2.0mA, f=1.0kHz (MPS3394)	55	300	
h <sub>fe</sub>	V <sub>CE</sub> =4.5V, I <sub>C</sub> =2.0mA, f=1.0kHz (MPS3395)	150	800	
C <sub>ob</sub>	V <sub>CB</sub> =10V, f=1.0MHz		3.5	pF