

MPS6533  
MPS6534  
MPS6535

**PNP SILICON TRANSISTORS**



**TO-92 CASE**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR MPS6533 series types are PNP silicon transistors designed for general purpose amplifier applications. The NPN complementary types are MPS6530, MPS6531, MPS6532 respectively.

**MARKING: FULL PART NUMBER**

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

Collector-Base Voltage	
Collector-Emitter Voltage	
Emitter-Base Voltage	
Continuous Collector Current	
Power Dissipation	
Operating and Storage Junction Temperature	

SYMBOL	MPS6533	MPS6534	MPS6535	UNITS
$V_{CB0}$	40	40	30	V
$V_{CEO}$	40	40	30	V
$V_{EBO}$		4.0		V
$I_C$		600		mA
$P_D$		625		mW
$T_J, T_{stg}$		-65 to +150		$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

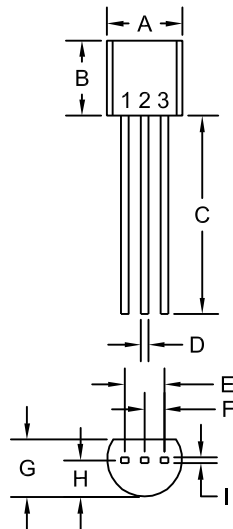
SYMBOL	TEST CONDITIONS	MPS6533		MPS6534		MPS6535		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	
$I_{CBO}$	$V_{CB}=30\text{V}$	-	50	-	50	-	-	nA
$I_{CBO}$	$V_{CB}=30\text{V}, T_A=60^\circ\text{C}$	-	2.0	-	2.0	-	-	$\mu\text{A}$
$I_{CBO}$	$V_{CB}=20\text{V}$	-	-	-	-	-	100	nA
$I_{CBO}$	$V_{CB}=20\text{V}, T_A=60^\circ\text{C}$	-	-	-	-	-	5.0	$\mu\text{A}$
$BV_{CBO}$	$I_C=10\mu\text{A}$	40	-	40	-	30	-	V
$BV_{CEO}$	$I_C=10\text{mA}$	40	-	40	-	30	-	V
$BV_{EBO}$	$I_E=10\mu\text{A}$	4.0	-	4.0	-	4.0	-	V
$V_{CE(SAT)}$	$I_C=100\text{mA}, I_B=10\text{mA}$	-	0.5	-	0.3	-	0.5	V
$V_{BE(SAT)}$	$I_C=100\text{mA}, I_B=10\text{mA}$	-	1.0	-	1.0	-	1.2	V
$h_{FE}$	$V_{CE}=1.0\text{V}, I_C=10\text{mA}$	30	-	60	-	-	-	
$h_{FE}$	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$	40	120	90	270	30	-	
$h_{FE}$	$V_{CE}=10\text{V}, I_C=500\text{mA}$	25	-	50	-	-	-	
$C_{ob}$	$V_{CB}=10\text{V}, I_E=0, f=100\text{kHz}$	-	6.0	-	6.0	-	6.0	pF
$f_T$	$V_{CE}=10\text{V}, I_C=50\text{mA}$	250(TYP)		250(TYP)		250(TYP)		MHz

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TO-92 CASE - MECHANICAL OUTLINE



R1

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.175	0.205	4.45	5.21
B	0.170	0.210	4.32	5.33
C	0.500	-	12.70	-
D	0.016	0.022	0.41	0.56
E	0.100		2.54	
F	0.050		1.27	
G	0.125	0.165	3.18	4.19
H	0.080	0.105	2.03	2.67
I	0.015		0.38	

TO-92 (REV: R1)

LEAD CODE:

- 1) Emitter
- 2) Base
- 3) Collector

MARKING:  
FULL PART NUMBER

R1 (29-November 2012)



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Central's operations team provides the highest level of support to insure product is delivered on-time.

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- Custom product packing

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- Application notes
- Application and design sample kits
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1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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### CONTACT US

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