

MPS6530
MPS6531
MPS6532

NPN SILICON TRANSISTORS



TO-92 CASE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPS6530 series types are NPN silicon transistors designed for general purpose amplifier applications. The PNP complementary types are MPS6533, MPS6534, MPS6535 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	MPS6530	MPS6531	MPS6532	UNITS
V_{CB0}	60	60	50	V
V_{CEO}	40	40	30	V
V_{EBO}		5.0		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)

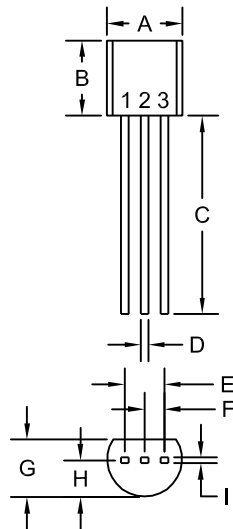
SYMBOL	TEST CONDITIONS	MPS6530		MPS6531		MPS6532		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	
I_{CBO}	$V_{CB}=40\text{V}$	-	50	-	50	-	-	nA
I_{CBO}	$V_{CB}=40\text{V}, T_A=60^\circ\text{C}$	-	2.0	-	2.0	-	-	μA
I_{CBO}	$V_{CB}=30\text{V}$	-	-	-	-	-	100	nA
I_{CBO}	$V_{CB}=30\text{V}, T_A=60^\circ\text{C}$	-	-	-	-	-	5.0	μA
BV_{CBO}	$I_C=10\mu\text{A}$	60	-	60	-	50	-	V
BV_{CEO}	$I_C=10\text{mA}$	40	-	40	-	30	-	V
BV_{EBO}	$I_E=10\mu\text{A}$	5.0	-	5.0	-	5.0	-	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}	$V_{CB}=10\text{V}, I_E=0, f=100\text{kHz}$	-	5.0	-	5.0	-	5.0	pF
f_T	$V_{CE}=10\text{V}, I_C=50\text{mA}$	300(TYP)		300(TYP)		300(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)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

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

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

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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