MPS6530 MPS6531 MPS6532

NPN SILICON TRANSISTORS

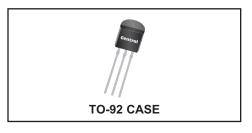


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DESCRIPTION:

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.





MAXIMUM RATINGS: (T _A =25°C)	SYMBOL	MPS6530	MPS6531	MPS6532	UNITS
Collector-Base Voltage	V_{CBO}	60	60	50	V
Collector-Emitter Voltage	V_{CEO}	40	40	30	V
Emitter-Base Voltage	V_{EBO}		5.0		V
Continuous Collector Current	$I_{\mathbb{C}}$		600		mA
Power Dissipation	P_{D}		625		mW
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to +150		°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

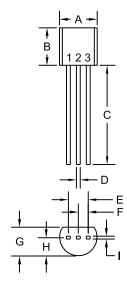
		MPS6530		MPS6531		MPS6532		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	UNITS
I _{CBO}	V _{CB} =40V	-	50	-	50	-	-	nA
ICBO	V _{CB} =40V, T _A =60°C	-	2.0	-	2.0	-	-	μΑ
I _{CBO}	V _{CB} =30V	-	-	-	-	-	100	nA
I _{СВО}	V_{CB} =30V, T_A =60°C	-	-	-	-	-	5.0	μΑ
BV CBO	I _C =10μA	60	-	60	-	50	-	V
BVCEO	I _C =10mA	40	-	40	-	30	-	V
BV _{EBO}	I _E =10μΑ	5.0	-	5.0	-	5.0	-	V
V _{CE} (SAT)	I _C =100mA, I _B =10mA	-	0.5	-	0.3	-	0.5	V
V _{BE(SAT)}	I _C =100mA, I _B =10mA	-	1.0	-	1.0	-	1.2	V
h _{FE}	V_{CE} =1.0V, I_{C} =10mA	30	-	60	-	-	-	
hFE	V_{CE} =1.0V, I_{C} =100mA	40	120	90	270	30	-	
hFE	V _{CE} =10V, I _C =500mA	25	-	50	-	-	-	
C _{ob}	V_{CB} =10V, I_E =0, f=100kHz	-	5.0	-	5.0	-	5.0	pF
f _T	V_{CE} =10V, I_{C} =50mA	300(TYF	P)	300(TYF	P)	300(TYF	P)	MHz

MPS6530 MPS6531 MPS6532





TO-92 CASE - MECHANICAL OUTLINE



DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A (DIA)	0.175	0.205	4.45	5.21		
В	0.170	0.210	4.32	5.33		
С	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		
Н	0.080	0.105	2.03	2.67		
	0.015		0.38			

TO-92 (REV: R1)

LEAD CODE:

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

MARKING:

R1

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 guick 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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