MPS6533
MPS6534
MPS6535

PNP SILICON TRANSISTORS

TO-92 CASE

Central Semiconductor Corp.

www.centralsemi.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°C)	**SYMBOL**	**MPS6533**	**MPS6534**	**MPS6535**	**UNITS**
Collector-Base Voltage	V_{CBO}	40	40	30	V
Collector-Emitter Voltage	V_{CEO}	40	40	30	V
Emitter-Base Voltage	V_{EBO}		4.0		V
Continuous Collector Current	I_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)

		MPS6533		**MPS6534**		**MPS6535**		
SYMBOL	**TEST CONDITIONS**	**MIN**	**MAX**	**MIN**	**MAX**	**MIN**	**MAX**	**UNITS**
I_{CBO}	V_{CB}=30V	-	50	-	50	-	-	nA
I_{CBO}	V_{CB}=30V, T_A=60°C	-	2.0	-	2.0	-	-	μA
I_{CBO}	V_{CB}=20V	-	-	-	-	-	100	nA
I_{CBO}	V_{CB}=20V, T_A=60°C	-	-	-	-	-	5.0	μA
BV_{CBO}	I_C=10μA	40	-	40	-	30	-	V
BV_{CEO}	I_C=10mA	40	-	40	-	30	-	V
BV_{EBO}	I_E=10μA	4.0	-	4.0	-	4.0	-	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	-	-	-	
h_{FE}	V_{CE}=1.0V, I_C=100mA	40	120	90	270	30	-	
h_{FE}	V_{CE}=10V, I_C=500mA	25	-	50	-	-	-	
C_{ob}	V_{CB}=10V, I_E=0, f=100kHz	-	6.0	-	6.0	-	6.0	pF
f_T	V_{CE}=10V, I_C=50mA	250(TYP)		250(TYP)		250(TYP)		MHz

R1 (29-November 2012)

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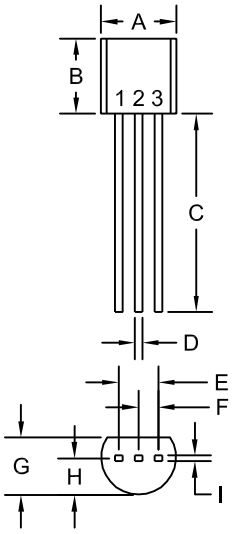
TO-92 CASE - MECHANICAL OUTLINE



R1

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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