COMPLEMENTARY SILICON TRANSISTORS

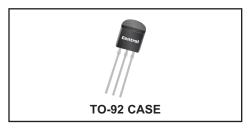


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N5172 and 2N6076 are complementary silicon small signal transistors designed for general purpose applications.





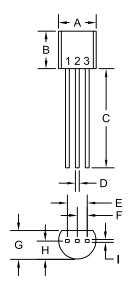
MAXIMUM RATINGS: (TA=25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	25	V
Collector-Emitter Voltage	V_{CEO}	25	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	$I_{\mathbb{C}}$	100	mA
Power Dissipation	P_{D}	625	mW
Operating and Storage Junction Temperature	T_J , T_{sta}	-65 to +150	°C

ELECTRICAL	_ CHARACTERISTICS: (T _A =25°C	unless otherwise	noted)		
SYMBOL	TEST CONDITIONS	MIN	ΤΎΡ	MAX	UNITS
ICBO	V _{CB} =25V			100	nA
I _{CBO}	V _{CB} =25V, T _A =100°C			10	μΑ
I _{CES}	V _{CE} =25V			100	nA
^I EBO	V _{EB} =5.0V (2N5172)			100	nA
I _{EBO}	V _{EB} =3.0V (2N6076)			100	nA
BV CEO	I _C =10mA	25			V
V _{CE} (SAT)	I _C =10mA, I _B =1.0mA			0.25	V
V _{BE} (SAT)	I _C =10mA, I _B =1.0mA			0.80	V
V _{BE(ON)}	V _{CE} =10V, I _C =10mA	0.5		1.2	V
hFE	V _{CE} =10V, I _C =10mA	100		500	
h _{fe}	V_{CE} =10V, I_{C} =10mA, f=1.0kHz	100		750	
f_T	V _{CB} =5.0V, I _C =2.0mA		200		MHz
C_{ob}	V_{CB} =10V, I_E =0, f=1.0MHz	1.0		13	pF

COMPLEMENTARY **SILICON TRANSISTORS**



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		
Е	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)

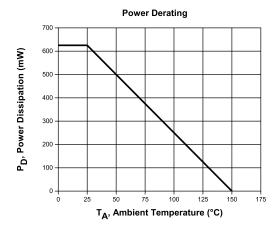
LEAD CODE:

- Emitter
 Collector
- 3) Base

R1

MARKING:

FULL PART NUMBER

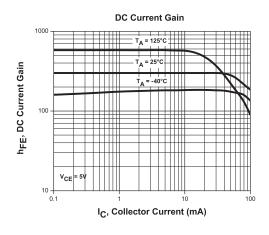


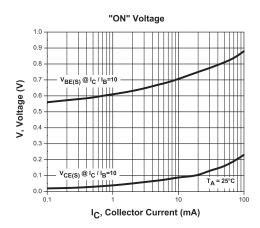
R1 (7-February 2014)

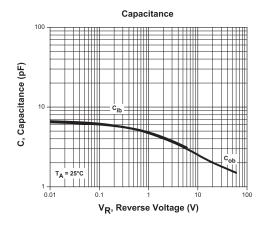


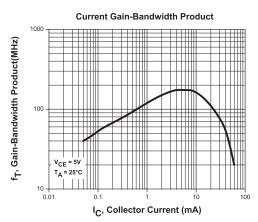


NPN TYPICAL ELECTRICAL CHARACTERISTICS





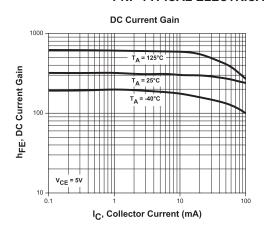


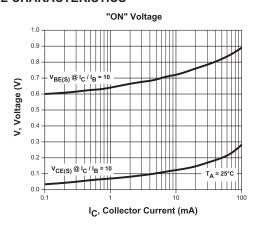


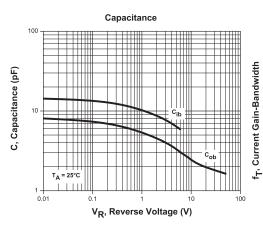


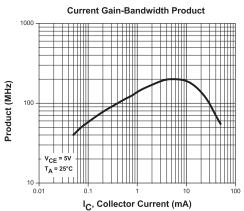


PNP TYPICAL ELECTRICAL CHARACTERISTICS









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