

2N4058 2N4061
2N4059 2N4062
2N4060

**SILICON
PNP TRANSISTORS**



TO-92 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N4058 series devices are silicon PNP transistors designed for low level, low noise (2N4058), low level, high gain (2N4059, 2N4060, 2N4061, 2N4062) applications. Recommended NPN complementary series is 2N3707 thru 2N3711.

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

V_{CBO} 30
 V_{CEO} 30
 V_{EBO} 6.0
 I_C 200
 P_D 625
 T_J, T_{stg} -65 to +150

UNITS

V
V
V
mA
mW
 $^\circ\text{C}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{CBO}	$V_{CB}=20\text{V}$		100	nA
I_{EBO}	$V_{EB}=6.0\text{V}$		100	nA
BV_{CEO}	$I_C=1.0\text{mA}$	30		V
$V_{CE(SAT)}$	$I_C=10\text{mA}, I_B=0.5\text{mA}$		0.7	V
$V_{BE(ON)}$	$V_{CE}=5.0\text{V}, I_C=1.0\text{mA}$	0.5	1.0	V
NF	$V_{CE}=5.0\text{V}, I_C=100\mu\text{A}, R_G=5.0\text{K}\Omega$, BW=15.7kHz (2N4058 only)		5.0	dB

SYMBOL	TEST CONDITIONS	2N4058		2N4059		2N4060		2N4061		2N4062	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
h_{FE}	$V_{CE}=5.0\text{V}, I_C=100\mu\text{A}$	100	400	-	-	-	-	-	-	-	-
h_{FE}	$V_{CE}=5.0\text{V}, I_C=1.0\text{mA}$	-	-	45	660	45	165	90	330	180	660
h_{fe}	$V_{CE}=5.0\text{V}, I_C=100\mu\text{A}, f=1.0\text{kHz}$	100	550	-	-	-	-	-	-	-	-
h_{fe}	$V_{CE}=5.0\text{V}, I_C=1.0\text{mA}, f=1.0\text{kHz}$	-	-	45	800	45	250	90	450	180	800

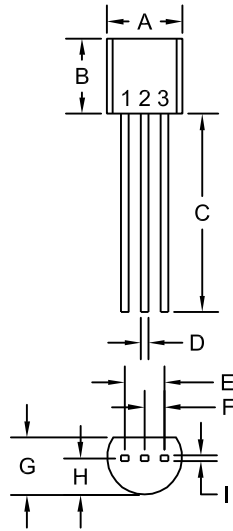
R1 (13-March 2014)

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TO-92 CASE - MECHANICAL OUTLINE



DIMENSIONS				
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) Collector
- 3) Base

MARKING:

FULL PART NUMBER

R1 (13-March 2014)