

2N4058 2N4061  
2N4059 2N4062  
2N4060

**SILICON  
PNP TRANSISTORS**



**TO-92 CASE**



[www.centrasemi.com](http://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		UNITS
$V_{CBO}$	30	V
$V_{CEO}$	30	V
$V_{EBO}$	6.0	V
$I_C$	200	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	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	$V_{CE}=5.0\text{V}, I_C=100\mu\text{A}, R_G=5.0\text{K}\Omega,$ $BW=15.7\text{kHz}$ (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



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) Collector
- 3) Base

MARKING:

FULL PART NUMBER

R1 (13-March 2014)