2N4058 2N4061
2N4059 2N4062
2N4060

SILICON
PNP TRANSISTORS

TO-92 CASE

Central Semiconductor Corp.

www.centralsemi.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°C)	**SYMBOL**		**UNITS**
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	6.0	V
Continuous Collector Current	I_C	200	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)

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

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

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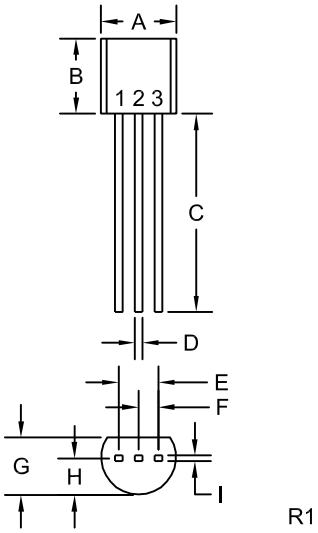
TO-92 CASE - MECHANICAL OUTLINE



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) Collector
3) Base

MARKING:
FULL PART NUMBER

R1 (13-March 2014)

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 quick 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).

CONTACT US

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