2N4058 2N4061 2N4059 2N4062 2N4060

SILICON PNP TRANSISTORS

TO-92 CASE





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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	$I_{\mathbb{C}}$	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 no	oted)	
SYMBOL TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO} V _{CB} =20V		100	nA

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICBO	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} =100 μ A, R_{G} =5.0K Ω ,			
	BW=15.7kHz (2N4058 only)		5.0	dB

		<u> ZIN4</u>	4030	2114	+059	2114	+000	ZIN	+00 I	2114	+002
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
h_{FE}	$V_{CE} = 5.0V, I_{C} = 100 \mu A$	100	400	-	-	-	-	-	-	-	-
hFE	V _{CE} =5.0V, I _C =1.0mA	-	-	45	660	45	165	90	330	180	660
h _{fe}	V_{CE} =5.0V, I_{C} =100 μ A, 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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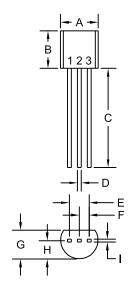
2014062

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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		
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:

- 1) Emitter
- 2) Collector 3) Base

R1

MARKING:

FULL PART NUMBER

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

CONTACT US

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