

2N5366  
2N5367

PNP SILICON TRANSISTOR



TO-92 CASE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N5366 and 2N5367 are silicon PNP epitaxial planar transistors designed for general purpose switching and amplifier applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ( $T_A=25^{\circ}\text{C}$ )

Collector-Base Voltage
Collector-Emitter Voltage
Emitter-Base Voltage
Continuous Collector Current
Continuous Collector Current ( $t_p=10\mu\text{s}$ )
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

$V_{CBO}$	40
$V_{CEO}$	40
$V_{EBO}$	4.0
$I_C$	300
$I_C$	700
$P_D$	625
$T_J, T_{stg}$	-65 to +150
$\Theta_{JA}$	200

UNITS

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

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_{CBO}$	$V_{CB}=40\text{V}$			100	nA
$I_{CBO}$	$V_{CB}=40\text{V}, T_A=100^{\circ}\text{C}$			10	$\mu\text{A}$
$I_{CES}$	$V_{CE}=40\text{V}$			100	nA
$I_{EBO}$	$V_{EB}=4.0\text{V}$			10	$\mu\text{A}$
$BV_{CEO}$	$I_C=10\text{mA}$	40			V
$V_{CE(SAT)}$	$I_C=50\text{mA}, I_B=2.5\text{mA}$			0.25	V
$V_{CE(SAT)}$	$I_C=300\text{mA}, I_B=30\text{mA}$			1.0	V
$V_{BE(SAT)}$	$I_C=50\text{mA}, I_B=2.5\text{mA}$			1.1	V
$V_{BE(SAT)}$	$I_C=300\text{mA}, I_B=30\text{mA}$			2.0	V
$V_{BE(ON)}$	$V_{CE}=10\text{V}, I_C=2.0\text{mA}$	0.5		0.8	V
$f_T$	$V_{CE}=10\text{V}, I_C=2.0\text{mA}$		250		MHz

		2N5366		2N5367	
		MIN	MAX	MIN	MAX
$h_{FE}$	$V_{CE}=10\text{V}, I_C=2.0\text{mA}$	80	-	200	-
$h_{FE}$	$V_{CE}=1.0\text{V}, I_C=50\text{mA}$	100	300	250	500
$h_{FE}$	$V_{CE}=5.0\text{V}, I_C=300\text{mA}$	40	-	75	-
$h_{fe}$	$V_{CE}=10\text{V}, I_C=2.0\text{mA}, f=1.0\text{kHz}$	80	450	200	750

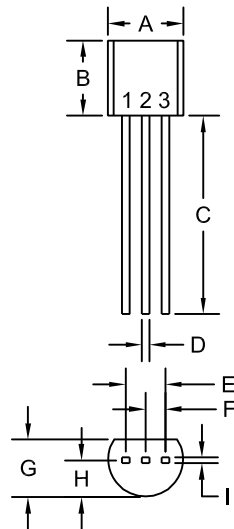
R2 (24-July 2019)

2N5366  
2N5367

PNP SILICON TRANSISTOR



### TO-92 CASE - MECHANICAL OUTLINE



R1

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) Base
- 3) Collector

#### MARKING: FULL PART NUMBER

R2 (24-July 2019)

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## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> 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

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### 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).

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### CONTACT US

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