

2N5366
2N5367

PNP SILICON TRANSISTOR



TO-92 CASE



www.centrasemi.com

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		UNITS
V_{CBO}	40	V
V_{CEO}	40	V
V_{EBO}	4.0	V
I_C	300	mA
I_C	700	mA
P_D	625	mW
T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
Θ_{JA}	200	$^\circ\text{C/W}$

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	μA
I_{CES}	$V_{CE}=40\text{V}$			100	nA
I_{EBO}	$V_{EB}=4.0\text{V}$			10	μA
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

	TEST CONDITIONS	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

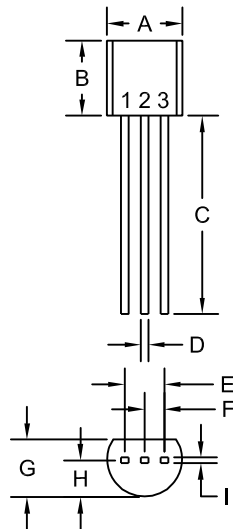
R2 (24-July 2019)

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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) Base
- 3) Collector

MARKING: FULL PART NUMBER

R2 (24-July 2019)