

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

2N5366
2N5367

PNP SILICON TRANSISTOR

JEDEC TO-92 CASE (ECB)

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N5366, 2N5367 types are PNP Silicon Planar Epitaxial Transistors designed for general purpose switching and amplifier applications.

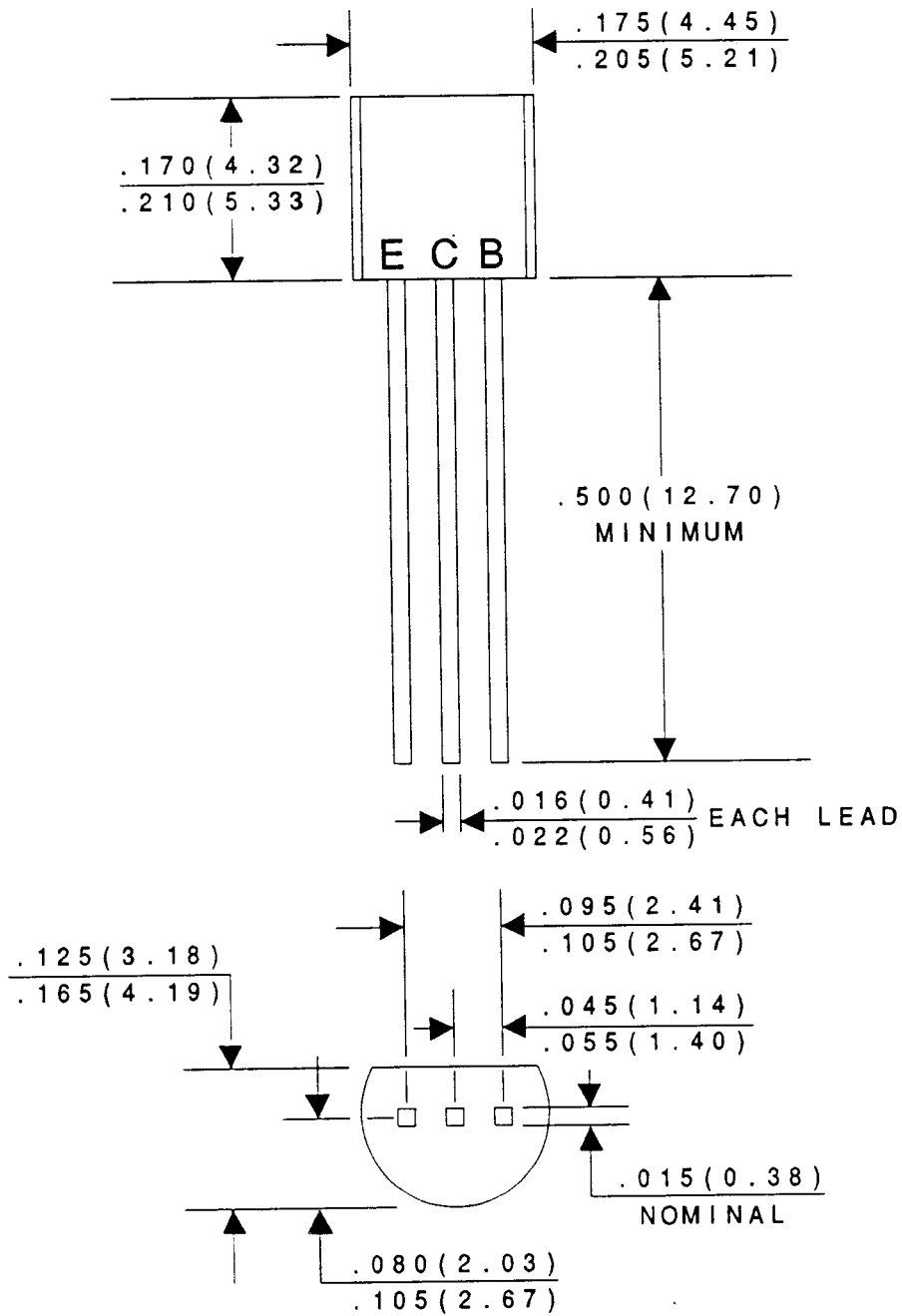
MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$)

	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V_{EBO}	4.0	V
Continuous Collector Current	I_C	300	mA
Collector Current ($t = 10\mu\text{sec}$)	I_C	700	mA
Power Dissipation	P_D	625	mW
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
Thermal Resistance	θ_{JA}	0.2	$^\circ\text{C}/\text{mW}$

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

SYMBOL	TEST CONDITIONS	2N5366		2N5367		UNITS
		MIN	MAX	MIN	MAX	
I_{CBO}	$V_{CB} = 40\text{V}$		100		100	nA
I_{CBO}	$V_{CB} = 40\text{V}, T_A = 100^\circ\text{C}$		10		10	μA
I_{CES}	$V_{CB} = 40\text{V}$		100		100	nA
I_{EBO}	$V_{EB} = 4.0\text{V}$		10		10	μA
BV_{CEO}	$I_C = 10\text{mA}$	40		40		V
$V_{CE(SAT)}$	$I_C = 50\text{mA}, I_B = 2.5\text{mA}$		0.25		0.25	V
$V_{CE(SAT)}$	$I_C = 300\text{mA}, I_B = 30\text{mA}$		1.0		1.0	V
$V_{BE(SAT)}$	$I_C = 50\text{mA}, I_B = 2.5\text{mA}$		1.1		1.1	V
$V_{BE(SAT)}$	$I_C = 300\text{mA}, I_B = 30\text{mA}$		2.0		2.0	V
$V_{BE(ON)}$	$V_{CE} = 10\text{V}, I_C = 2.0\text{mA}$	0.5	0.8	0.5	0.8	V
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		
C_{ob}	$V_{CB} = 10\text{V}, I_E = 0, f = 1.0\text{MHz}$		8.0		8.0	pF
C_{ib}	$V_{EB} = 0.5\text{V}, I_C = 0, f = 1.0\text{MHz}$		35		35	pF
h_{fe}	$V_{CE} = 10\text{V}, I_C = 2.0\text{mA}, f = 1.0\text{kHz}$	80	450	200	750	
f_T	$V_{CE} = 10\text{V}, I_C = 2.0\text{mA}$		250 TYP		250 TYP	MHz

JEDEC TO-92 CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).