Central™

Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

2N4406
2N4407

PNP SILICON TRANSISTOR

JEDEC TO-39 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N4406, 2N4407 types are PNP Silicon Epitaxial Planar Transistors designed for general purpose and switching applications.
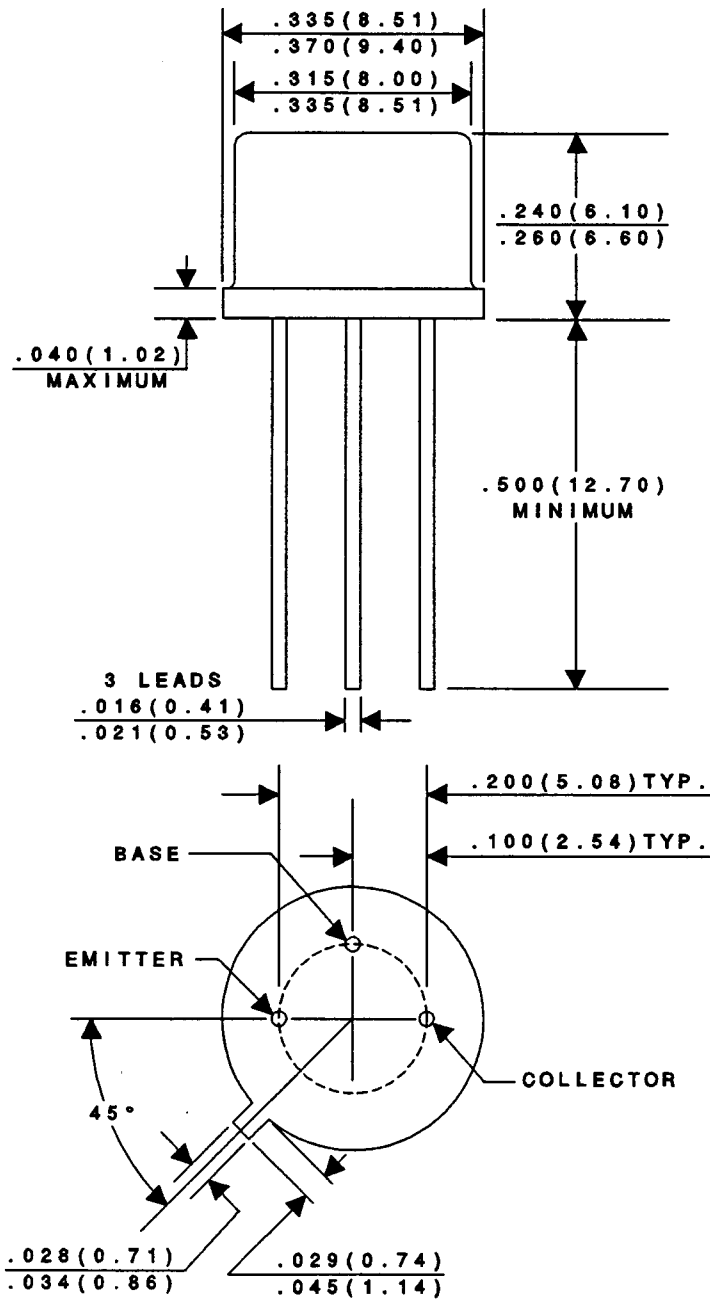
MAXIMUM RATINGS ($T_A = 25°C$)

	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	80	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Collector Current	I_C	2.0	A
Power Dissipation	P_D	1.25	W
Power Dissipation ($T_C = 25°C$)	P_D	8.75	W
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +200	°C
Thermal Resistance	Θ_{JA}	140	°C/W
Thermal Resistance	Θ_{JC}	20	°C/W

ELECTRICAL CHARACTERISTICS ($T_A = 25°C$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	2N4406 MIN	2N4406 MAX	2N4407 MIN	2N4407 MAX	UNITS
I_{CBO}	$V_{CB} = 60V$		25		25	μA
I_{EBO}	$V_{EB} = 3.0V$		25		25	μA
BV_{CEO}	$I_C = 10mA$	80		80		V
BV_{CBO}	$I_C = 10μA$	80		80		V
BV_{EBO}	$I_E = 10μA$	5.0		5.0		V
$V_{CE(SAT)}$	$I_C = 150mA, I_B = 15mA$		0.2		0.2	V
$V_{CE(SAT)}$	$I_C = 500mA, I_B = 50mA$		0.4		0.4	V
$V_{CE(SAT)}$	$I_C = 1.0A, I_B = 100mA$		0.7		0.7	V
$V_{CE(SAT)}$	$I_C = 1.5A, I_B = 150mA$		1.5		1.5	V
$V_{BE(SAT)}$	$I_C = 150mA, I_B = 15mA$		0.9		0.9	V
$V_{BE(SAT)}$	$I_C = 1.0A, I_B = 100mA$		1.3		1.3	V
$V_{BE(SAT)}$	$I_C = 1.5A, I_B = 150mA$		1.5		1.5	V
$V_{BE(ON)}$	$V_{CE} = 1.0V, I_C = 500mA$		1.0		1.0	V
h_{FE}	$V_{CE} = 5.0V, I_C = 10mA$	30		80		
h_{FE}	$V_{CE} = 5.0V, I_C = 150mA$	30		80		
h_{FE}	$V_{CE} = 5.0V, I_C = 500mA$	30	120	80	240	
h_{FE}	$V_{CE} = 5.0V, I_C = 1.0A$	20		30		
h_{FE}	$V_{CE} = 5.0V, I_C = 1.5A$	10		10		
f_T	$V_{CE} = 20V, I_C = 50mA, f = 100MHz$	50		50		MHz
C_{cb}	$V_{CB} = 10V, I_E = 0, f = 1.0MHz$		50		50	pF

JEDEC TO-39 CASE - MECHANICAL DIMENSIONS

.335(8.51)
.370(9.40)

.315(8.00)
.335(8.51)

.240(6.10)
.260(6.60)

.040(1.02)
MAXIMUM

.500(12.70)
MINIMUM

3 LEADS
.016(0.41)
.021(0.53)

.200(5.08)TYP.

.100(2.54)TYP.

BASE

EMITTER

COLLECTOR

45°

.028(0.71)
.034(0.86)

.029(0.74)
.045(1.14)

All Dimensions in Inches (mm).

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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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