

2N3634
2N3635

**SILICON
PNP TRANSISTORS**



TO-39 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N3634 and 2N3635 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
Power Dissipation
Power Dissipation ($T_C=25^{\circ}\text{C}$)
Operating and Storage Junction Temperature
Thermal Resistance
Thermal Resistance

SYMBOL

V_{CBO} 140
 V_{CEO} 140
 V_{EBO} 5.0
 I_C 1.0
 P_D 1.0
 P_D 5.0
 T_J, T_{stg} -65 to +200
 Θ_{JA} 175
 Θ_{JC} 35

UNITS

V
V
V
A
W
W
 $^{\circ}\text{C}$
 $^{\circ}\text{C/W}$
 $^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{CBO}	$V_{CB}=100\text{V}$		100	nA
I_{EBO}	$V_{EB}=3.0\text{V}$		50	nA
BV_{CBO}	$I_C=100\mu\text{A}$	140		V
BV_{CEO}	$I_C=10\text{mA}$	140		V
BV_{EBO}	$I_E=10\mu\text{A}$	5.0		V
$V_{CE(SAT)}$	$I_C=10\text{mA}, I_B=1.0\text{mA}$		0.3	V
$V_{CE(SAT)}$	$I_C=50\text{mA}, I_B=5.0\text{mA}$		0.5	V
$V_{BE(SAT)}$	$I_C=10\text{mA}, I_B=1.0\text{mA}$		0.8	V
$V_{BE(SAT)}$	$I_C=50\text{mA}, I_B=5.0\text{mA}$	0.65	0.9	V
f_T	$V_{CE}=30\text{V}, I_C=30\text{mA}, f=100\text{MHz}$ (2N3634)	150		MHz
f_T	$V_{CE}=30\text{V}, I_C=30\text{mA}, f=100\text{MHz}$ (2N3635)	200		MHz
C_{ob}	$V_{CB}=20\text{V}, I_E=0, f=1.0\text{MHz}$		10	pF
C_{ib}	$V_{EB}=1.0\text{V}, I_C=0, f=1.0\text{MHz}$		75	pF
NF	$V_{CE}=10\text{V}, I_C=0.5\text{mA}, R_S=1.0\text{k}\Omega, f=1.0\text{kHz}$		3.0	dB
t_{on}	$V_{CC}=100\text{V}, V_{BE}=4.0\text{V}, I_C=50\text{mA}$ $I_{B1}=I_{B2}=5.0\text{mA}$		400	ns
t_{off}			600	ns

R1 (17-September 2013)

**2N3634
2N3635**

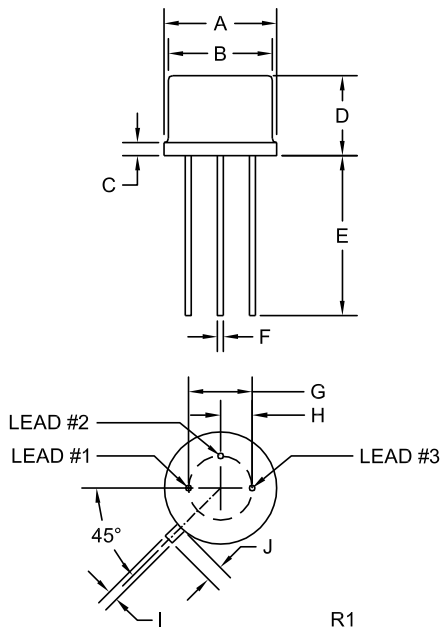
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ELECTRICAL CHARACTERISTICS - Continued: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	2N3634		2N3635	
		MIN	MAX	MIN	MAX
h_{FE}	$V_{CE}=10\text{V}, I_C=0.1\text{mA}$	40	-	80	-
h_{FE}	$V_{CE}=10\text{V}, I_C=1.0\text{mA}$	45	-	90	-
h_{FE}	$V_{CE}=10\text{V}, I_C=10\text{mA}$	50	-	100	-
h_{FE}	$V_{CE}=10\text{V}, I_C=50\text{mA}$	50	150	100	300
h_{FE}	$V_{CE}=10\text{V}, I_C=150\text{mA}$	25	-	50	-
h_{fe}	$V_{CE}=10\text{V}, I_C=10\text{mA}, f=1.0\text{kHz}$	40	160	80	320

TO-39 CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.335	0.370	8.51	9.40
B (DIA)	0.315	0.335	8.00	8.51
C	-	0.040	-	1.02
D	0.240	0.260	6.10	6.60
E	0.500	-	12.70	-
F (DIA)	0.016	0.021	0.41	0.53
G (DIA)	0.200		5.08	
H	0.100		2.54	
I	0.028	0.034	0.71	0.86
J	0.029	0.045	0.74	1.14

TO-39 (REV: R1)

LEAD CODE:

- 1) Emitter
- 2) Base
- 3) Collector

MARKING: FULL PART NUMBER

R1 (17-September 2013)

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692
Email amall@ameya360.com
QQ 800077892
Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333
Email mkt@ameya360.com