

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

BC337
BC337A
BC338

NPN SILICON TRANSISTOR

JEDEC TO-92-18R CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR BC337, BC337A, BC338 types are Silicon NPN Transistors designed for general purpose switching and amplifier applications.

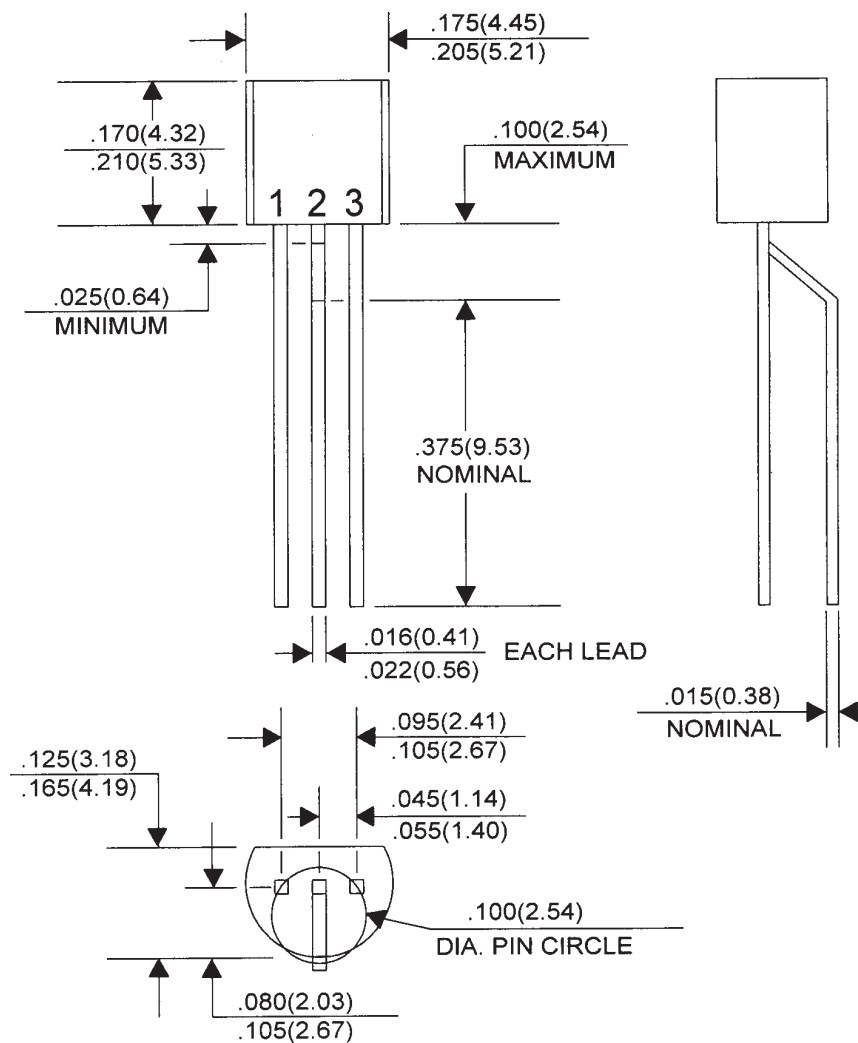
MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)

	SYMBOL	BC337	BC337A	BC338	UNITS
Collector-Base Voltage	V_{CBO}	50	60	30	V
Collector-Emitter Voltage	V_{CEO}	45	60	25	V
Emitter-Base Voltage	V_{EBO}		5.0		V
Collector Current	I_C		500		mA
Peak Collector Current	I_{CM}		1.0		A
Base Current	I_B		100		mA
Peak Base Current	I_{BM}		200		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}		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}	$V_{CB}=20\text{V}$			100	nA
I_{CBO}	$V_{CB}=20\text{V}, T_A=150^\circ\text{C}$			5.0	μA
I_{EBO}	$V_{EB}=5.0\text{V}$			100	nA
$V_{CE(SAT)}$	$I_C=500\text{mA}, I_B=50\text{mA}$			0.7	V
$V_{BE(ON)}$	$V_{CE}=1.0\text{V}, I_C=500\text{mA}$			1.2	V
h_{FE}	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC337, BC338)	100		600	
h_{FE}	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC337A)	100		400	
h_{FE}	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC337-16, BC338-16)	100		250	
h_{FE}	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC337-25, BC338-25)	160		400	
h_{FE}	$V_{CE}=1.0\text{V}, I_C=100\text{mA}$ (BC337-40, BC338-40)	250		600	
h_{FE}	$V_{CE}=1.0\text{V}, I_C=500\text{mA}$ (All Types)	40			
f_T	$V_{CE}=5.0\text{V}, I_C=10\text{mA}, f=100\text{MHz}$	100			MHz
C_c	$V_{CB}=10\text{V}, I_E=0, f=1.0\text{MHz}$		5.0		pF

(See Reverse Side)

JEDEC TO-92-18R - MECHANICAL OUTLINE

All Dimensions in Inches (mm).

LEAD CODE:

- 1) COLLECTOR
- 2) BASE
- 3) EMITTER

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