2N4234
2N4235
2N4236

SILICON
PNP TRANSISTORS

TO-39 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N4234, 2N4235, and 2N4236 are silicon PNP transistors mounted in a hermetically sealed metal case, designed for power amplifier, power driver, and switching power supply applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_C=25°C unless otherwise noted)

	SYMBOL	2N4234	2N4235	2N4236	UNITS
Collector-Base Voltage	V_{CBO}	40	60	80	V
Collector-Emitter Voltage	V_{CEO}	40	60	80	V
Emitter-Base Voltage	V_{EBO}		7.0		V
Continuous Collector Current	I_C		1.0		A
Peak Collector Current	I_{CM}		3.0		A
Continuous Base Current	I_B		0.2		A
Power Dissipation	P_D		6.0		W
Power Dissipation (T_A=25°C)	P_D		1.0		W
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +200		°C
Thermal Resistance	Θ_{JC}		29		°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{CBO}	V_{CB}=Rated V_{CBO}		100	μA
I_{CEX}	V_{CE}=Rated V_{CEO}, V_{BE}=1.5V		100	μA
I_{CEX}	V_{CE}=30V, V_{BE}=1.5V, T_C=150°C (2N4234)		1.0	mA
I_{CEX}	V_{CE}=40V, V_{BE}=1.5V, T_C=150°C (2N4235)		1.0	mA
I_{CEX}	V_{CE}=60V, V_{BE}=1.5V, T_C=150°C (2N4236)		1.0	mA
I_{CEO}	V_{CE}=30V (2N4234)		1.0	mA
I_{CEO}	V_{CE}=40V (2N4235)		1.0	mA
I_{CEO}	V_{CE}=60V (2N4236)		1.0	mA
I_{EBO}	V_{EB}=7.0V		500	μA
BV_{CEO}	I_C=100mA (2N4234)	40		V
BV_{CEO}	I_C=100mA (2N4235)	60		V
BV_{CEO}	I_C=100mA (2N4236)	80		V
$V_{CE(SAT)}$	I_C=1.0A, I_B=125mA		0.6	V
$V_{BE(SAT)}$	I_C=1.0A, I_B=100mA		1.5	V
$V_{BE(ON)}$	V_{CE}=1.0V, I_C=250mA		1.0	V

R1 (12-May 2017)

2N4234
2N4235
2N4236

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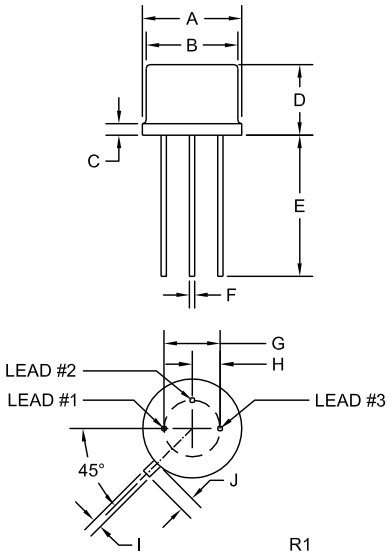
PNP TRANSISTORS

ELECTRICAL CHARACTERISTICS - Continued: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
h_{FE}	V_{CE}=1.0V, I_C=100mA	40		
h_{FE}	V_{CE}=1.0V, I_C=250mA	30	175	
h_{FE}	V_{CE}=1.0V, I_C=500mA	20		
h_{FE}	V_{CE}=1.0V, I_C=1.0A	10		
h_{fe}	V_{CE}=10V, I_C=50mA, f=1.0kHz	25		
f_T	V_{CE}=10V, I_C=100mA, f=1.0MHz	3.0		MHz
C_{ob}	V_{CB}=10V, I_E=0, f=100kHz		100	pF

TO-39 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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

OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
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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