2N4234 2N4235 2N4236

SILICON PNP TRANSISTORS



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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



MAXIMUN	I RATINGS: (T _C =25°C unless otherwis	se noted)				
		SYMBOL	2N4234	2N4235	2N4236	UNITS
Collector-E	Base Voltage	V_{CBO}	40	60	80	V
Collector-E	Emitter Voltage	V_{CEO}	40	60	80	V
Emitter-Ba	se Voltage	V_{EBO}		7.0		V
Continuou	s Collector Current	IC		1.0		Α
Peak Colle	ector Current	ICM		3.0		Α
Continuou	s Base Current	I_{B}		0.2		Α
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
ELECTRIC	CAL CHARACTERISTICS: (TA=25°C u	unless otherwis	e noted)			
SYMBOL	TEST CONDITIONS	MIN	,	MAX		UNITS
Ісво	V _{CB} =Rated V _{CBO}			100		μΑ
ICEX	V_{CE} =Rated V_{CEO} , V_{BE} =1.5 V			100		μΑ
ICEY	VCE=30V, VBE=1.5V, TC=150°C (2	2N4234)		1.0		mA

ELECTRICA SYMBOL	AL CHARACTERISTICS: (T _A =25°C unless of TEST CONDITIONS	therwise not MIN	ed) MAX	UNITS
ICBO	V _{CB} =Rated V _{CBO}	WIIIN	100	μA
ICEX	V _{CE} =Rated V _{CEO} , V _{BE} =1.5V		100	μΑ
ICEX	V _{CE} =30V, V _{BE} =1.5V, T _C =150°C (2N4234)		1.0	mA
ICEX	V _{CE} =40V, V _{BE} =1.5V, T _C =150°C (2N4235)		1.0	mA
ICEX	V _{CE} =60V, V _{BE} =1.5V, T _C =150°C (2N4236)		1.0	mA
ICEO	V _{CE} =30V (2N4234)		1.0	mA
ICEO	V _{CE} =40V (2N4235)		1.0	mA
ICEO	V _{CE} =60V (2N4236)		1.0	mA
I _{EBO}	V _{EB} =7.0V		500	μΑ
BV_{CEO}	I _C =100mA (2N4234)	40		V
BVCEO	I _C =100mA (2N4235)	60		V
BVCEO	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)

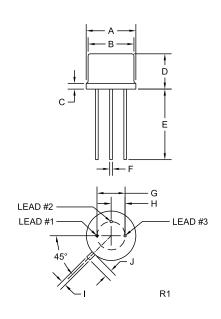
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SILICON PNP TRANSISTORS



ELECTRICA	L CHARACTERISTICS - Continued:	(T _A =25°C unless	s otherwise noted)	
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
h _{FE}	V _{CE} =1.0V, I _C =100mA	40		
hFE	V_{CE} =1.0V, I_{C} =250mA	30	175	
h_{FE}	V_{CE} =1.0V, I_{C} =500mA	20		
hFE	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
Coh	V _{CB} =10V, I _E =0, f=100kHz		100	ρF

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	
С	-	0.040	-	1.02	
D	0.240	0.260	6.10	6.60	
Е	0.500	-	12.70	-	
F (DIA)	0.016	0.021	0.41	0.53	
G (DIA)	0.200		5.08		
Н	0.100		2.54		
	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 guick 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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