2N5415 2N5416

SILICON PNP TRANSISTORS

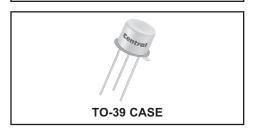


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N5415 and 2N5416 are silicon PNP transistors designed for consumer and industrial line-operated applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _A =25°C) Collector-Base Voltage	SYMBOL V _{CBO}	2N5415 200	2N5416 350	UNITS V
Collector-Emitter Voltage	V_{CEO}	200	300	V
Emitter-Base Voltage	V_{EBO}	4.0	6.0	V
Continuous Collector Current	$I_{\mathbb{C}}$	1	.0	Α
Continuous Base Current	Ι _Β	0	.5	Α
Power Dissipation	P_{D}	1	.0	W
Operating and Storage Junction Temperature	T_J , T_{stg}	-65 to	+200	°C
ELECTRICAL CHARACTERISTICS: (T _A =25°C)	2N5415		2N5416	LIMITO

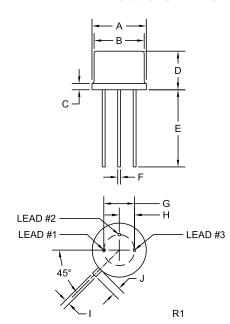
ELECTRICAL CHARACTERISTICS: (TA=25°C)			2N5415		<u>2N5416</u>	
SYMBOL	TEST CONDITIONS V _{CB} =175V	MIN	MAX 50	MIN	MAX	UNITS μΑ
ICBO		-	50	_	-	•
ICBO	V _{CB} =280V	-	-	-	50	μA
I _{CEV}	V _{CE} =200V, V _{EB} =1.5V	-	50	-	-	μΑ
ICEV	V_{CE} =300V, V_{EB} =1.5V	-	-	-	50	μΑ
ICEO	V _{CE} =150V	-	50	-	-	μΑ
I _{CEO}	V _{CE} =250V	-	-	-	50	μΑ
I _{EBO}	V _{EB} =4.0V	-	20	-	-	μΑ
I _{EBO}	V _{EB} =6.0V	-	-	-	20	μΑ
BV _{CEO}	I _C =50mA	200	-	300	-	V
BV CER	I_C =50mA, R_{BE} =50 Ω	-	-	350	-	V
V _{CE} (SAT)	I _C =50mA, I _B =5.0mA	-	2.5	-	2.0	V
V _{BE(SAT)}	I _C =50mA, I _B =5.0mA	-	1.5	-	1.5	V
hFE	V _{CE} =10V, I _C =50mA	30	150	30	120	
h _{fe}	V_{CE} =10V, I_{C} =5.0mA, f=1.0kHz	25	-	25	-	
f_{T}	V_{CE} =10V, I_{C} =10mA, f=5.0MHz	15	-	15	-	MHz
C_{ob}	V_{CB} =10V, I_E =0, f=1.0MHz	-	25	-	25	pF

2N5415 2N5416

SILICON PNP TRANSISTORS



TO-39 CASE - MECHANICAL OUTLINE



SYMBOL MIN MAX MIN MA A (DIA) 0.335 0.370 8.51 9.4 B (DIA) 0.315 0.335 8.00 8.5 C - 0.040 - 1.0 D 0.240 0.260 6.10 6.6 E 0.500 - 12.70 -	DIMENSIONS						
A (DIA) 0.335 0.370 8.51 9.4 B (DIA) 0.315 0.335 8.00 8.5 C - 0.040 - 1.0 D 0.240 0.260 6.10 6.6 E 0.500 - 12.70 - F (DIA) 0.016 0.021 0.41 0.5			INCHES		MILLIMETERS		
B (DIA) 0.315 0.335 8.00 8.5 C - 0.040 - 1.0 D 0.240 0.260 6.10 6.6 E 0.500 - 12.70 - F (DIA) 0.016 0.021 0.41 0.5	'MBOL	OL	MIN	MAX	MIN	MAX	
C - 0.040 - 1.0 D 0.240 0.260 6.10 6.6 E 0.500 - 12.70 - F (DIA) 0.016 0.021 0.41 0.5	(DIA)	A) ().335	0.370	8.51	9.40	
D 0.240 0.260 6.10 6.6 E 0.500 - 12.70 - F (DIA) 0.016 0.021 0.41 0.5	(DIA)	4) ().315	0.335	8.00	8.51	
E 0.500 - 12.70 - F (DIA) 0.016 0.021 0.41 0.5	С		-	0.040	-	1.02	
F (DIA) 0.016 0.021 0.41 0.5	D	C).240	0.260	6.10	6.60	
	Е	C).500	-	12.70	-	
G (DIA) 0.200 5.08	(DIA)	4) C	0.016	0.021	0.41	0.53	
	(DIA)	A)	0.200		5.08		
H 0.100 2.54	Н		0.100		2.54		
I 0.028 0.034 0.71 0.8		C	0.028	0.034	0.71	0.86	
J 0.029 0.045 0.74 1.1	J	C	0.029	0.045	0.74	1.14	

TO-39 (REV: R1)

LEAD CODE:

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

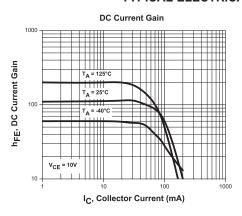
MARKING: FULL PART NUMBER

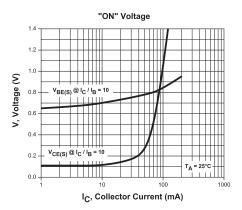
2N5415 2N5416

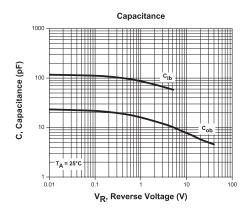
SILICON PNP TRANSISTORS

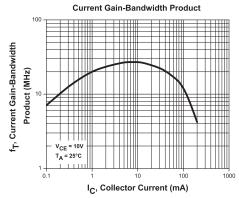


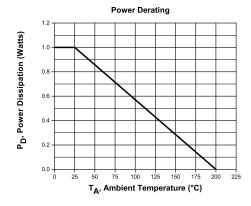
TYPICAL ELECTRICAL CHARACTERISTICS











R2 (16-December 2013)

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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