2N6211 2N6212 2N6213

SILICON PNP POWER TRANSISTORS



TO-66 CASE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6211, 2N6212, and 2N6213 are silicon PNP transistors designed for high speed switching and high voltage amplifier applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _C =25°C)	SYMBOL	2N6211	2N6212	2N6213	UNITS
Collector-Base Voltage	V_{CBO}	275	350	400	V
Collector-Emitter Voltage	VCEO	225	300	350	V
Emitter-Base Voltage	V_{EBO}		6.0		V
Continuous Collector Current	IC		2.0		Α
Peak Collector Current	ICM		5.0		Α
Continuous Base Current	ΙΒ		1.0		Α
Power Dissipation	P_{D}		35		W
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to +200		°C
Thermal Resistance	ΘJC		5.0		°C/W

ELECTRICAL CHARACTERISTICS: (T_C=25°C unless otherwise noted) **2N6211 2N6212**

		<u>2N6</u>	<u> 5211</u>	<u>2N</u>	<u> 6212</u>	<u>2N6</u>	<u> 213</u>	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	UNITS
ICEV	V_{CE} =250V, V_{BE} =1.5V	-	0.5	-	-	-	-	mA
ICEV	V _{CE} =315V, V _{BE} =1.5V	-	-	-	0.5	-	-	mA
ICEV	V _{CE} =360V, V _{BE} =1.5V	-	-	-	-	-	0.5	mA
ICEV	V_{CE} =250V, V_{BE} =1.5V, T_{C} =100°C	-	5.0	-	-	-	-	mA
ICEV	V_{CE} =315V, V_{BE} =1.5V, T_{C} =100°C	-	-	-	5.0	-	-	mA
ICEV	V_{CE} =360V, V_{BE} =1.5V, T_{C} =100°C	-	-	-	-	-	5.0	mA
ICEO	V _{CE} =150V	-	5.0	-	5.0	-	5.0	mA
I _{EBO}	V _{EB} =6.0V	-	1.0	-	0.5	-	0.5	mA
BVCEV	I_C =50mA, V_{BE} =1.5V, L=10mH	275	-	350	-	400	-	V
BVCER	I_C =50mA, R_{BE} =50 Ω	250	-	325	-	375	-	V
BVCEO	I _C =50mA	225	-	300	-	350	-	V
BVEBO	I _E =1.0mA	6.0	-	-	-	-	-	V
BVEBO	I _E =0.5mA	-	-	6.0	-	6.0	-	V
V _{CE} (SAT)	I _C =1.0A, I _B =125mA	-	1.4	-	1.6	-	2.0	V
V _{BE} (SAT)	I _C =1.0A, I _B =125mA	-	1.4	-	1.4	-	1.4	V
hFE	V _{CE} =2.8V, I _C =1.0A	10	100	-	-	-	-	
hFE	V _{CE} =3.2V, I _C =1.0A	-	-	10	100	-	-	
hFE	V_{CE} =4.0V, I_{C} =1.0A	-	-	-	-	10	100	

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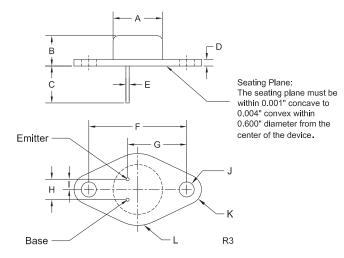
SILICON PNP POWER TRANSISTORS



ELECTRICAL	$_{ t L}$ CHARACTERISTICS - Continued: (T $_{ t C}$ =2	25°C unless	otherwise noted)	
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
f_{T}	V_{CE} =10V, I_{C} =200mA, f=5.0MHz	20		MHz
C _{ob}	V_{CB} =10V, I_E =0, f=1.0MHz		220	pF
t _r	V_{CC} =200V, I_{C} =1.0A, I_{B1} = I_{B2} =125mA		0.6	μs
t _s	V_{CC} =200V, I_{C} =1.0A, I_{B1} = I_{B2} =100mA		2.5	μs
t _f	V_{CC} =200V, I_{C} =1.0A, I_{B1} = I_{B2} =125mA		0.6	μs
l _{S/b} *	V _{CE} =40V	875		mA

^{*}Pulsed: 1.0s non-repetitive pulse.

TO-66 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A (DIA)	0.470	0.500	11.94	12.70
В	0.250	0.340	6.35	8.64
С	0.360	-	9.14	-
D	0.050	0.075	1.27	1.91
E (DIA)	0.028	0.034	0.71	0.86
F	0.956	0.964	24.28	24.48
G	0.570	0.590	14.48	14.99
Н	0.190	0.210	4.83	5.33
	0.093	0.107	2.36	2.72
J (DIA)	0.142	0.152	3.61	3.86
K (RAD)	0.141		3.58	
L (RAD)	0.345		8.76	
			TO-66 (I	REV:R3)

FULL PART NUMBER

MARKING:

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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Product End of Life Notification

PDN ID:	PDN01197
Notification Date:	11/11/21
Last Buy Date:	
Last Shipment Date	11/11/22

Summary: The following power transistors are discontinued and now classified as of End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement
CEN1041 MOD	N/A
CEN1181	N/A
2N6211	N/A
2N6212	N/A
2N6213	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. If you would like assistance, please visit https://my.centralsemi.com/submit-inquiry?type=ER to submit an online inquiry.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.

CCC785 REV 002