

SILICON PNP POWER TRANSISTOR



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6214 is a silicon PNP power transistor mounted in a hermetically sealed metal case, designed for general purpose amplifier and switching applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _C =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V _{CBO}	450	V
Collector-Emitter Voltage	VCEX	450	V
Collector-Emitter Voltage	VCER	425	V
Collector-Emitter Voltage	VCEO	400	V
Emitter-Base Voltage	V _{EBO}	6.0	V
Continuous Collector Current	۱ _C	2.0	А
Continuous Base Current	۱ _B	1.0	А
Power Dissipation	PD	35	W
Power Dissipation (T _C =100°C)	PD	20	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)

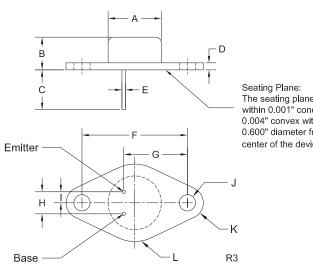
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICEV	V _{CE} =410V, V _{EB} =1.5V		1.0	mA
ICEV	V _{CE} =410V, V _{EB} =1.5V, T _C =100°C		10	mA
ICEO	V _{CE} =150V		5.0	mA
IEBO	V _{EB} =6.0V		0.5	mA
BVCEO	I _C =200mA	400		V
BVCER	I _C =200mA, R _{BE} =50Ω	425		V
BVCEX	I_{C} =200mA, V_{BE} =1.5V, R_{BE} =50 Ω	450		V
BVEBO	I _B =500mA	6.0		V
V _{CE(SAT)}	I _C =1.0A, I _B =125mA		2.5	V
V _{BE(SAT)}	I _C =1.0A, I _B =125mA		1.4	V
h _{FE}	V _{CE} =5.0V, I _C =1.0A	10	100	
h _{fe}	V _{CE} =10V, I _C =200mA, f=5.0MHz	4.0		
Cob	V _{CB} =10V, f=1.0MHz		220	pF
I _{s/b}	V _{CE} =40V	875		mA
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} =125mA		2.5	μs
t _f	V _{CC} =200V, I _C =1.0A, I _{B1} =I _{B2} =125mA		0.6	μs
				R0 (15-January 2019)





2N6214

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TO-66 CASE - MECHANICAL OUTLINE

Seating Plane: The seating plane must be within 0.001" concave to 0.004" convex within 0.600" diameter from the center of the device.

MARKING: FULL PART NUMBER

DIMENSIONS							
INCHES		MILLIMETERS					
MIN	MAX	MIN	MAX				
0.470	0.500	11.94	12.70				
0.250	0.340	6.35	8.64				
0.360	-	9.14	-				
0.050	0.075	1.27	1.91				
0.028	0.034	0.71	0.86				
0.956	0.964	24.28	24.48				
0.570	0.590	14.48	14.99				
0.190	0.210	4.83	5.33				
0.093	0.107	2.36	2.72				
0.142	0.152	3.61	3.86				
0.141		3.58					
0.345		8.	76				
	INC MIN 0.470 0.250 0.360 0.050 0.028 0.956 0.570 0.190 0.093 0.142 0.1	INCHES MIN MAX 0.470 0.500 0.250 0.340 0.360 - 0.050 0.075 0.028 0.034 0.956 0.964 0.570 0.590 0.190 0.210 0.093 0.107 0.142 0.152	INCHES MILLIM MIN MAX MIN 0.470 0.500 11.94 0.250 0.340 6.35 0.360 - 9.14 0.050 0.075 1.27 0.028 0.034 0.71 0.956 0.964 24.28 0.570 0.590 14.48 0.190 0.210 4.83 0.093 0.107 2.36 0.142 0.152 3.61 0.141 3. 3.				

TO-66 (REV:R3)

R0 (15-January 2019)

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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

DESIGNER SUPPORT/SERVICES

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

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- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- · Environmental regulation compliance
- Customer specific screening
- · Up-screening capabilities

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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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