2N3707 2N3710 2N3708 2N3711 2N3709

SILICON

TO-92 CASE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N3707 series devices are silicon NPN transistors designed for low level, low noise (2N3707), low level, high gain (2N3708, 2N3709, 2N3710, 2N3711) applications. Recommended PNP complementary series is 2N4058 thru 2N4062.

MARKING: FULL PART NUMBER

•												
MAXIMUM RATINGS: (T _A =25°C)		SYMBOL			00			UNITS				
Collector-Base Voltage		VCBO			30			V				
Collector-Emitter Voltage		VCEO			30			V				
Emitter-Base Voltage		V_{EBO}		6.0			V					
Continuous Collector Current		$I_{\mathbb{C}}$		200			mA					
Power Dissipation		P_{D}			625			mW				
Operating and Storage Junction Temperature		T_J , T_{stg}		-65 to +150			°C					
ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)												
SYMBOL TEST CONDITIONS		MIN			MAX			UNITS				
ICBO	V _{CB} =20V					100			nA			
I _{EBO}	V _{EB} =6.0V					100			nA			
BV_{CEO}	I _C =1.0mA		30						V			
V _{CE} (SAT)	` '		0.5			1.0 1.0			V V			
V _{BE(ON)}												
NF	V_{CE} =5.0V, I_{C} =100 μ A, R_{G} =10 $K\Omega$,											
	BW=15.7kHz (2N3707 only)				5.0			dB				
		2N3707			N3708 2N3709		2N3710		<u>2N3711</u>			
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
h _{FE}	V _{CE} =5.0V, I _C =100μA	100	400	-	-	-	-	-	-	-	-	
hFE	V _{CE} =5.0V, I _C =1.0mA	100	- 550	45	660	45	165	90	330	180	660	
h _{fe} h _{fe}	V_{CE} =5.0V, I_{C} =100 μ A, f=1.0kHz V_{CE} =5.0V, I_{C} =1.0mA, f=1.0kHz	-	-	45	800	- 45	250	90	- 450	180	800	

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SILICON **NPN TRANSISTORS**

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LEAD CODE:

- 1) Emitter 2) Collector 3) Base

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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