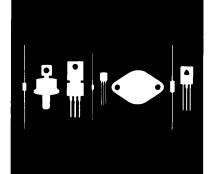
Central
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145 Adams Avenue

Hauppauge, New York 11788



2N3641 PN3641 2N3642 PN3642 2N3643 PN3643

JEDEC TO-105 JEDEC TO-92

NPN SILICON SIGNAL TRANSISTORS

2N3642

## DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N3641, PN3641 Series types are Silicon NPN Small Signal Transistors designed for general purpose amplifier applications.

2N3641 2N3643 PN3641

## MAXIMUM RATINGS (TA=25°C)

		SYMBOL		3643		PN3642		UNIT	
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current		V <sub>CBO</sub> V <sub>EBO</sub> I <sub>C</sub>	60 30 5.0 500		60 45 5.0 500		V V V mA		
			2N	3641 3642 <u>3643</u>	1	PN3641 PN3642 PN4643			
Power Dissipation Operating and Storage Junction Temperature		$P_{D}$		350		625		mW	
		T <sub>J</sub> , T <sub>stg</sub>	<b>-</b> 55	TO <sup>+</sup> 12	.5 <del>-</del> !	55 TO .	<sup>+</sup> 150	°c	
ELECTRICAL CHARACTERISTICS (TA=25°C)		2N3641 PN3641		2N3642 PN3642		2N3643 PN3643			
SYMBOL	TEST CONDITIONS		MIN	MAX	MIN	MAX	MIN	MAX	UNIT
ICES BVCBO BVCES BVCEO BVEBO	V <sub>CE</sub> =50V I <sub>C</sub> =10μΑ I <sub>C</sub> =10μΑ I <sub>C</sub> =10mA I <sub>E</sub> =10μΑ		60 60 30 5.0	50	60 60 45 5.0	50	60 60 30 5.0	50	nA V V V
VCE(SAT)   C=150mA,   B=15mA NFE   VCE=10V,   C=150mA NCE=10V,   C=500mA VCE=50V   C=50mA		A A	40 15 150	120	40 15 150	120	100 25 250	0.22 300	V MHz
f <sub>T</sub> C <sub>ob</sub>	V <sub>CE</sub> =5.0V, Y <sub>C</sub> =50mA, f=100MHz V <sub>CB</sub> =10V, f=140kHz V <sub>CF</sub> =15V, R <sub>G</sub> =140Ω, R <sub>L</sub> =260Ω, f=30MHz,			8.0	. , , 0	8.0	250	8.0	pF
Gpe	P <sub>IN</sub> =40mW	_	10		10		10		dB
n t <sub>on</sub> t <sub>off</sub>	P <sub>1N</sub> =40mW I <sub>C</sub> =300mA, I <sub>B1</sub> =30r I <sub>C</sub> =300mA, I <sub>B1</sub> =1 <sub>B2</sub>		60	60 150	60	60 150	60	60 150	% ns ns
						_	_		

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- 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 quick ship samples (2<sup>nd</sup> 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**

### Corporate Headquarters & Customer Support Team

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