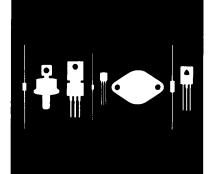
Central
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145 Adams Avenue

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 _{CBO} V _{EBO} I _C	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 _J , T _{stg}	- 55	TO ⁺ 12	.5 - !	55 TO .	⁺ 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 _{CE} =50V I _C =10μΑ I _C =10μΑ I _C =10mA I _E =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 _T C _{ob}	V _{CE} =5.0V, Y _C =50mA, f=100MHz V _{CB} =10V, f=140kHz V _{CF} =15V, R _G =140Ω, R _L =260Ω, f=30MHz,			8.0	. , , 0	8.0	250	8.0	pF
Gpe	P _{IN} =40mW	_	10		10		10		dB
n t _{on} t _{off}	P _{1N} =40mW I _C =300mA, I _{B1} =30r I _C =300mA, I _{B1} =1 _{B2}		60	60 150	60	60 150	60	60 150	% ns ns
						_	_		

145 Adams Avenue, Hauppauge, NY 11788 USA Tel: (631) 435-1110 • Fax: (631) 435-1824

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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