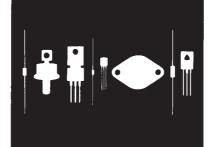
Central Semiconductor Corp. Central ™ Semiconductor Corp. 145 Adams Avenue

Hauppauge, New York 11788



2N3641 PN3641 2N3642 PN3642 2N3643 PN3643

JEDEC TO-105 JEDEC TO-92

NPN SILICON SIGNAL TRANSISTORS

DESCRIPTION

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

MAXIMUM RATINGS (TA=25°C)

Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current		SYMBOL VCBO VCEO VEBO IC	2N3641 2N3643 PN3643 PN3643 60 30 5.0 500		2N3642 PN3642 60 45 5.0 500			UNIT V V V mA	
			2 N	13641 13642 13643		PN3641 PN3642 PN4643			
Power Dissipation Operating and Storage Junction Temperature		P_{D}	350			625		mW	
		T _J , T _{stg}	-55	-55 TO ⁺ 125 -55 TO		55 TO	⁺ 150	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 VCE(SAT) hFE hFE fT Cob Gpe	V _{CE} =50V I _C =10μA I _C =10μA I _C =10mA I _F =10μA		60 60 30 5.0	50	60 60 45 5.0	50	60 60 30 5.0	50	nA V V V
	C=150mA, B=15mA V _{CE} =10V, C=150mA V _{CE} =10V, C=500mA V _{CE} =5.0V, C=50mA, f=100MH V _{CE} =15V, F=140kHz V _{CE} =15V, R _G =140Ω, R _L =260Ω	A	40 15	0.22 120	40 15	0.22 120	100 25	0.22 300	V
		2	150	8.0	150	8.0	250	8.0	MHz pF
η	P _{1N} =40mW V _{CE} =15V, R _G =140Ω,	, R _L =260Ω, f=30MHz,	10 60		10 60		10 60		dB %
t _{on} t _{off}	P _{IN} =40mW I _C =300mA, I _{B1} =30m I _C =300mA, I _{B1} =I _{B2}		ου	60 150	00	60 150	00	60 150	ns ns

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OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

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- 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 quick 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

CONTACT US

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