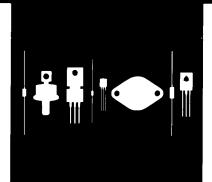
Central M Semiconductor Corp. Central M Semiconductor Corp. 145 Adams Avenue Hauppauge, New York 11788



2N5632 2N5633 2N5634 NPN 2N6229 2N6230 2N6231 PNP

COMPLEMENTARY SILICON POWER TRANSISTORS

JEDEC TO-3 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N5632, 2N6229 series types are complementary silicon power transistors manufactured by the epitaxial base process mounted in a hermetically sealed metal case designed for high power amplifier and switching applications where high voltages are required.

MAXIMUM RATINGS $(T_C=25^{\circ}C \text{ unless otherwise noted})$

		SYMBOL		N5632 N622 <u>9</u>	2N5633 2N6230		N5634 N6231	UNIT
Collector-Base Voltage		V _{CBO}		100	120		140	٧
Collector-	Emitter Voltage	VCEO		100	120		140	V
	ise Voltage	v_{EBO}		7.0	7.0		7.0	٧
Collector		l C		10	10		10	Α
Collector Current (Peak)		ICM		15	15		15	A
Base Curre		ΙΒ		5.0	5.0		5.0	A
Power Diss		P_{D}		150	150		150	W °C
Operating	and Storage Junction Temperature	TJ, TSTO	G	-	65 TO +2	200		٦,
Thermal Resistance		ΘJC			1.17			°C/W
ELECTRICAL CHARACTERISTICS (Tc=25°C unless		2N56		2N5633		2N5634		
	otherwise noted	2N62		2N62		2N6	_	
SYMBOL	TEST CONDITIONS OTHERWISE HOLES	MIN	MAX	MIN	MAX	MIN	MAX	UNIT
ICBO	V _{CB} =Rated V _{CB} 0		1.0		1.0		1.0	mΑ
ICEV	V _{CE} =Rated V _{CBO} , V _{EB} (OFF)=1.5V		1.0		1.0		1.0	mΑ
ICEV	VCE=Rated VCBO, VEB(OFF)=1.5V,TC=	150°C	5.0		5.0		5.0	mΑ
I CEO	VCE=½ Rated VCBO		1.0		1.0		1.0	mΑ
I EBO	VBE=7.0V		1.0		1.0		1.0	mΑ
BVCEO	I C=200mA	100		120		140		V
VCE(SAT)	IC=7.5A, IB=0.75A		1.0		1.0		1.0	V
VCE(SAT)	IC=10A, IB=2.0A		2.0		2.0		2.0	V
VBE(SAT)	IC=7.5A, IB=0.75A		2.0		2.0		2.0	V
VBE (ON)	VCE=2.0V, IC=5.0A		1.5		1.5		1.5	V
pŁE	VCE=2.0V, IC=5.0A	25	100	20	80	15	60	
hFE	VCE=2.0V, IC=10A	5.0		5.0		5.0		
hfe	VCE=10V, IC=2.0A, f=1.0kHz	15		15		15		
f _T	VCE=20V, IC=1.0A, f=0.5MHz	1.0		1.0		1.0		MHz
Сор	VCB=10V, IE=0, f=0.1MHz (NPN type		300		300		300	pF
Cop	VCB=10V, IE=0, f=0.1MHz (PNP type	:S)	600		600		600	рF



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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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