

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N5655 series types are silicon NPN plastic power transistors manufactured by the epitaxial planar process designed for horizontal driver and high voltage amplifier and switching applications.

MAXIMUM RATINGS (Tc=25°C unless otherwise noted)

		SYMBOL	2N5	<u> 5655</u>	<u>2N</u>	5656	<u>2N5</u>	<u>657</u>	UNIT
Collector- Emitter-Bas Collector (Collector (Base Curren Power Diss	Current Current (Peak) nt	VCBO VCEO VEBO IC ICM IB PD TJ, TSTG		275 250		325 300 6.0 500 1.0 250 20	3	75 50	V V MA A MA W
Thermal Re	sistance	ΘJC			6	.25			°C/W
ELECTRICAL SYMBOL	CHARACTERISTICS (T _C =25°C unless TEST CONDITIONS	otherwise	noted 2N56 <u>MIN</u>	d) 655 <u>MAX</u>	2N5 <u>MIN</u>	656 MAX	2N5 <u>MIN</u>	657 <u>MAX</u>	UNIT
ICB0	VCB=Rated VCBO			10		10		10	μА
1 CEO	VCE=150V			0.1		-		-	mA
CEO	VCE=200V			-		0.1		-	mΑ
ICEO	VCE=250V			-		-		0.1	mΑ
ICEA	VCE=Rated VCBO, VEB=1.5V			0.1		0.1		0.1	mA
ICEV	VCE=150V, VEB=1.5V, TC=100°C			1.0		-		-	mΑ
ICEV	VCE=200V, VEB=1.5V, TC=100°C			-		1.0		-	mΑ
1 CEV	VCE=250V, VEB=1.5V, TC=100°C			-		-		1.0	mA
IEBO	VEB=6.0V			10		10		10	μA
BVCEO	IC=1.OmA		250		300		350		V
BVCEO	1 C=100mA		250		300		350		V
VCE(SAT)	IC=100mA, IB=10mA			1.0		1.0		1.0	V
VCE(SAT)	IC=250mA, IB=25mA			2.5		2.5		2.5	V
VCE(SAT)	IC=500mA, IB=100mA			10		10		10	V
VBE (ON)	VCE=10V, IC=100mA			1.0		1.0	0.5	1.0	V
þFΕ	VCE=10V, IC=50mA		25	050	25	050	25	0.50	
hFE	VCE=10V, IC=100mA		30	250	30	250	30	250	
þFΕ	VCE=10V, IC=250mA		15		15		15		
þFΕ	VCE=10V, IC=500mA		5.0		5.0		5.0		
h _{fe}	V _{CE} =10V, I _C =100mA, f=1.0kHz		20		20		20		***
fΤ	VCE=10V, IC=50mA, f=10MHz		10	٥-	10		10	0.5	MHz
Сор	VCB=10V, IE=0, f=100kHz			25		25		25	рF

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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Central Semiconductor: 2N5655 TIN/LEAD