CentralSemiconductor Corp.

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

Manufacturers of World Class Discrete Semiconductors

MPS3704 MPS3705 MPS3706

SILICON NPN TRANSISTOR

JEDEC TO-92 CASE (EBC)

DESCRIPTION

The CENTRAL SEMICONDUCTOR MPS3704 thru MPS3706 are NPN silicon planar transistors for general purpose switching and amplifier applications.

MAXIMUM RATINGS (TA=25°C)

	SYMBOL	MPS3704 MPS3705	MPS3706	UNIT
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Power Dissipation Operating and Storage Junction Temperature	VCBO	50	40	V
	VCEO	30	20	V
	VEBO	5.0	5.0	V
	IC	600	600	mA
	PD	625	625	mW
	TJ, TSTG	-65 TO	+150	°C

ELECTRICAL CHARACTERISTICS (TA=25°C)

		MPS3/04		MPS3705		MPS3706		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	UNIT
ICBO IEBO BVCBO BVCEO BVEBO VCE(SAT) VBE(ON) hFE fT Cob	VCB=20V VEB=3.0V IC=100µA IC=100µA IC=100mA, IB=5.0mA VCE=2.0V, IC=100mA VCE=2.0V, IC=50mA VCE=2.0V, IC=50mA, f=20MHz VCB=10V, IE=0, f=1.0MHz	50 30 5.0 0.5 100	100 100 0.6 1.0 300	50 30 5.0 0.5 50 100	100 100 0.8 1.0 100	40 20 5.0 0.5 30 100	1.0 1.0 1.0 600	nA nA V V V V MHz pF
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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

Corporate Headquarters & Customer Support Team

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Central Semiconductor: MPS3706 TIN/LEAD