

## Excellent Integrated System Limited

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[Central Semiconductor Corp](#)  
[MPQ2369](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

# Central<sup>TM</sup> Semiconductor Corp.

145 Adams Ave., Hauppauge, NY 11788 USA  
Phone (516) 435-1110 FAX (516) 435-1824

Manufacturers of World Class Discrete Semiconductors

MPQ2369

NPN SILICON QUAD TRANSISTOR

JEDEC TO-116 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR MPQ2369 is comprised of four independent silicon transistors mounted in a 14 PIN DIP, designed for high speed saturated applications.

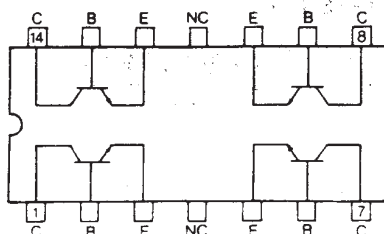
## MAXIMUM RATINGS (TA=25°C unless otherwise noted)

	SYMBOL		UNIT
Collector-Base Voltage	VCBO	40	V
Collector-Emitter Voltage	VCEO	15	V
Emitter-Base Voltage	VEBO	4.5	V
Collector Current	IC	500	mA
Power Dissipation	PD (EACH TRANSISTOR)	500	mW
Power Dissipation	PD (TOTAL PACKAGE)	1500	mW
Operating and Storage Junction Temperature	TJ, TSTG	-65 TO +150	°C

## ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
ICBO	VCB=20V			400	nA
IEBO	VEB=3.0V			500	nA
BVCBO	IC=10µA	40			V
BVCEO	IC=10mA	15			V
BVEBO	IE=10µA	4.5			V
VCE(SAT)	IC=10mA, IB=1.0mA			0.25	V
VBE(SAT)	IC=10mA, IB=1.0mA			0.9	V
hFE	VCE=1.0V, IC=10mA	40			
hFE	VCE=2.0V, IC=100mA	20			
fT	VCE=10V, IC=10mA, f=100MHz	450			MHz
Cob	VCB=5.0V, IE=0, f=140kHz			4.0	pF
Cib	VBE=0.5V, IC=0, f=140kHz			5.0	pF
ton	VCC=3.0V, IC=10mA, IB1=3.0mA		9.0		ns
toff	VCC=3.0V, IC=10mA, IB1=3.0mA, IB2=1.5mA		12		ns

CONNECTION DIAGRAM



## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> 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

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

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