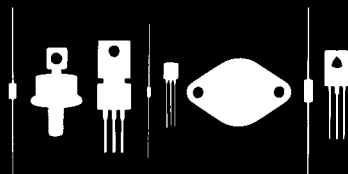


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145 Adams Avenue
Hauppauge, New York 11788



MPS8097

NPN SILICON TRANSISTOR

JEDEC TO-92 CASE (EBC)

DESCRIPTION

The CENTRAL SEMICONDUCTOR MPS8097 is an Epoxy Molded Silicon NPN Transistor designed for low noise audio amplifier applications.

MAXIMUM RATINGS (T_A = 25°C)

	SYMBOL		UNITS
Collector-Base Voltage	V _{CB0}	60	V
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	6.0	V
Collector Current	I _C	200	mA
Power Dissipation	P _D	625	mW
Operating and Storage			
Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ _{JA}	200	°C/W

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} = 60V		10	μA
I _{CBO}	V _{CB} = 40V		30	nA
I _{EBO}	V _{BE} = 6.0V		20	nA
BV _{CEO}	I _C = 10mA	40		V
V _{BE(ON)}	V _{CE} = 5.0V, I _C = 100μA	0.45	0.65	V
h _{FE}	V _{CE} = 5.0V, I _C = 100μA	250	700	
h _{fe}	V _{CE} = 5.0V, I _C = 100μA, f = 1.0kHz	250	800	
C _{ob}	V _{CB} = 5.0V, I _E = 0, f = 1.0MHz	1.0	4.0	pF
C _{eb}	V _{BE} = 0.5V, I _C = 0, f = 1.0MHz		10	pF
NF	V _{CE} = 5.0V, I _C = 100μA, R _S = 10kΩ, f = 10Hz to 15.7kHz		2.0	dB
e _n	V _{CE} = 5.0V, I _C = 100μA, R _S = 10kΩ, f = 100Hz, BW = 1.0Hz		32	nV/√Hz

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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 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

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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