

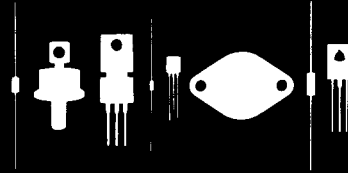
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145 Adams Avenue
Hauppauge, New York 11788



MPS6546
MPS6547

NPN SILICON TRANSISTOR

JEDEC TO-92 CASE (BEC)

DESCRIPTION

The CENTRAL SEMICONDUCTOR MPS6546, MPS6547 types are NPN Silicon Epitaxial RF Amplifier Transistors designed for low noise mixer and amplifier applications.

MAXIMUM RATINGS (T_A=25°C)

	SYMBOL		UNIT
Collector-Base Voltage	V _{CB0}	35	V
Collector-Emitter Voltage	V _{CEO}	25	V
Emitter-Base Voltage	V _{EBO}	3.0	V
Collector Current	I _C	50	mA
Power Dissipation	P _D	625	mW
Operating and Storage Temperature	T _J , T _{stg}	-65 TO +150	°C

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I _{CB0}	V _{CB} =25V		0.1	μA
I _{EBO}	V _{BE} =2.0V		1.0	μA
BV _{CB0}	I _C =10μA	35		V
BV _{CEO}	I _C =1.0mA	25		V
BV _{EBO}	I _E =100μA	3.0		V
V _{CE(SAT)}	I _C =10mA, I _B =1.0mA		0.35	V
h _{FE}	V _{CE} =10V, I _C =2.0mA	20		
f _T	V _{CE} =10V, I _C =2.0mA, f=100MHz	600		MHz
C _{re}	V _{CB} =10V, f=100kHz, (MPS6546)		0.45	pF
C _{re}	V _{CB} =10V, f=100kHz, (MPS6547)		0.35	pF
P _{out}	V _{EE} =12.5V, f=118MHz (MPS6546)	10		mW
G _{pe}	V _{CE} =10V, I _C =4.0mA (100MHz to 0.7MHz) (MPS6547)	20		dB

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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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