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Data Sheet

Central™ Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

2N5086
2N5087

PNP SILICON TRANSISTORS

JEDEC TO-92 CASE (EBC)

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N5086, 2N5087 series are molded epoxy silicon PNP signal transistors designed for low level, low noise amplifier applications.

MAXIMUM RATINGS (T_A=25°C)

	SYMBOL		UNIT
Collector-Base Voltage	V_{CBO}	50	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	3.0	V
Collector Current	I_C	50	mA
Power Dissipation	P_D	625	mW
Power Dissipation	P_D	1.5	W
Operating and Storage Junction Temperature	T_J, Tstg	-65 TO +150	°C
Thermal Resistance	Θ_{JA}	0.2	°C/mW
Thermal Resistance	Θ_{JC}	83.3	°C/W

ELECTRICAL CHARACTERISTICS (T_A=25°C)

SYMBOL	TEST CONDITIONS	2N5086 MIN	2N5086 MAX	2N5087 MIN	2N5087 MAX	UNIT
I_{CBO}	V_{CB}=10V		10		10	nA
I_{CBO}	V_{CB}=35V		50		50	nA
I_{EBO}	V_{EB}=3.0V		50		50	nA
BV_{CBO}	I_C=100μA	50		50		V
BV_{CEO}	I_C=1.0mA	50		50		V
$V_{CE(SAT)}$	I_C=10mA, I_B=1.0mA		0.3		0.3	V
$V_{BE(ON)}$	V_{CE}=5.0V, I_C=1.0mA		0.85		0.85	V
h_{FE}	V_{CE}=5.0V, I_C=100μA	150	500	250	800	
h_{FE}	V_{CE}=5.0V, I_C=1.0mA	150		250		
h_{FE}	V_{CE}=5.0V, I_C=10mA	150		250		
h_{fe}	V_{CE}=5.0V, I_C=1.0mA, f=1.0kHz	150	600	250	900	
f_T	V_{CE}=5.0V, I_C=500μA, f=20MHz	40		40		MHz
C_{ob}	V_{CB}=5.0V, I_E=0, f=100kHz		4.0		4.0	pF
NF	V_{CE}=5.0V, I_C=20μA, R_S=10kΩ, f=10Hz TO 15.7kHz		3.0		2.0	dB
NF	V_{CE}=5.0V, I_C=100μA, R_S=3.0kΩ, f=1.0kHz		3.0		2.0	dB

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

Corporate Headquarters & Customer Support Team

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