CentralSemiconductor 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 (TA=25°C)

	SYMBOL		UNIT
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Power Dissipation Power Dissipation Operating and Storage Junction Temperature	VCBO	50	V
	VCEO	50	V
	VEBO	3.0	V
	IC	50	mA
	PD	625	mW
	PD	1.5	W
	TJ, Tstg	-65 TO +150	° C
Thermal Resistance	OLΘ	0.2	°C/mW
Thermal Resistance	OLΘ	83.3	°C/W

ELECTRICAL CHARACTERISTICS (TA=25°C)

	(1) (1)		2N5086		2N5087	
SYMBOL TEST CONDITIONS	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNIT
ICBO	V _{CB} =10V		10		10	nA
ICBO	VCB=35V		50		50	nΑ
IEBO	VEB=3.0V		50		50	nΑ
BVCBO	IC=100µA	50		50	-	٧
BVCEO	lc=1.0mA	50		50		٧
VCE(SAT)	1c=10mA, IB=1.0mA	-	0.3	•	0.3	V
VBE(ON)	VcE=5.0V, Ic=1.0mA		0.85		0.85	v
hFE	V _{CE} =5.0V, I _C =100μA	150	500	250	800	•
hFE	$V_{CE}=5.0V$, $I_{C}=1.0mA$	150	,,,,	250	000	
hFE	VCE=5.0V, IC=10mA	150		250		
hfe	VcE=5.0V, Ic=1.0mA, f=1.0kHz	150	600	250	900	
fŢ	V _{CE} =5.0V, I _C =500μA, f=20MHz	40		40	700	MHz
c_{ob}	VcB=5.0V, IE=0, f=100kHz		4.0	, 0	4.0	pF
NF	$V_{CE=5.0V}$, $I_{C=20\mu A}$, $R_{S=10k\Omega}$,					Ρ.
	f=10Hz TO 15.7kHz		3.0		2.0	dB
NF	VCE=5.0V, IC=100μA, RS=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 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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