

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N6121 series types are Complementary Silicon Power Transistors designed for power amplifier and switching applications.

MAXIMUM RATINGS ($T_{C}=25^{\circ}C$)

Collector-Base Current Collector-Emitter Voltage Emitter-Base Voltage Collector Current Base Current Power Dissipation Operating and Storage Junction Temperature	SYMBOL VCBO VCEO VEBO IC IB PD TJ,Tstg	2N6121 2N6124 45 45 5.0 4.0 1.0 40	2N6122 2N6125 60 60 5.0 4.0 1.0 40 -65 T0 +150	2N6123 2N6126 80 80 5.0 4.0 1.0 40	UNIT V V A A W °C
Thermal Resistance	ΘJC	3.1	3.1	3.1	°C/W

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

			6121		122	2N6		
		21	16124	2N6	125	2N6	126	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	UNIT
BVCEO	IC=0.1A	45		60		80		V
ICEV	V _{CE} =Rated V _{CEO} , V _{BE} =1.5V		0.1		0.1		0.1	mA
ICEV	V_{CE} =Rated V_{CEO} , V_{BE} =1.5V (T_{C} =125°C)	•	2.0		2.0		2.0	mA
ICE0	VCE=Rated V _{CEO}		1.0		1.0		1.0	mA
I CBO	V_{CE} =Rated V_{CBO}		0.1		0.1		0.1	mA
EBO	V _{BE} =5.0V		1.0		1.0		1.0	mΑ
V _{CE} (SAT)	I _C =1.5A, I _B =0.15A		0.6		0.6		0.6	V
VCE(SAT)	$I_{c} = 4.0A$, $I_{B} = 1.0A$		1.4		1.4		1.4	V
VBE(ON)	$V_{CE}=2.0V, I_{C}=1.5A$		1.2		1.2		1.2	V
hFE	$V_{CE}=2.0V, I_{C}=1.5A$	25	100	25	100	20	80	
h _{FE}	$V_{CE}=2.0V, I_{C}=4.0A$	10		10		7.0		
h _{fe}	$V_{CE}=2.0V$, $I_{C}=0.1A$, f=1.0kHz	25		25		25		
fT	V _{CE} =4.0V, I _C =1.0A, f=1.0MHz	2.5		2.5		2.5		MHz



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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

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

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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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