2N4123 2N4124 NPN 2N4125 2N4126 PNP

COMPLEMENTARY SILICON TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N4123 series devices are complementary silicon small signal transistors manufactured by the epitaxial planar process designed for general purpose amplifier and switching applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL	<u>2N4123</u>	<u>2N4124</u>	<u>2N4125</u>	<u>2N4126</u>	UNITS
Collector-Base Voltage	V_{CBO}	40	30	30	25	V
Collector-Emitter Voltage	V_{CEO}	30	25	30	25	V
Emitter-Base Voltage	V_{EBO}	5.0	5.0	4.0	4.0	V
Continuous Collector Current	I_{C}		200			mA
Power Dissipation	P_{D}		62	25		mW
Power Dissipation (T _C =25°C)	P_{D}		1.	.5		W
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to +150			°C
Thermal Resistance	$\Theta_{\sf JA}$		20	00		°C/W
Thermal Resistance	Θ JC		83	3.3		°C/W

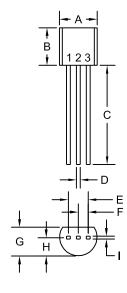
	AL CHARACTERISTICS: (T _A =25°C)		1123		1124		4125		1126	LIMITO
SYMBOL ICBO	TEST CONDITIONS V _{CB} =20V	MIN -	MAX 50	units nA						
I _{EBO}	V _{EB} =3.0V	-	50	-	50	-	50	-	50	nA
BV_{CBO}	I _C =10μA	40	-	30	-	30	-	25	-	V
BV_{CEO}	I _C =1.0mA	30	-	25	-	30	-	25	-	V
BV_{EBO}	I _E =10μA	5.0	-	5.0	-	4.0	-	4.0	-	V
V _{CE(SAT)}	I _C =50mA, I _B =5.0mA	-	0.3	-	0.3	-	0.4	-	0.4	V
V _{BE(SAT)}	I_C =50mA, I_B =5.0mA	-	0.95	-	0.95	-	0.95	-	0.95	V
hFE	V_{CE} =1.0V, I_{C} =2.0mA	50	150	120	360	50	150	120	360	
h _{FE}	V_{CE} =1.0V, I_{C} =50mA	25	-	60	-	25	-	60	-	
h _{fe}	V_{CE} =10V, I_{C} =2.0mA, f=1.0kHz	50	200	120	480	50	200	120	480	
f _T	V_{CE} =20V, I_{C} =10mA, f=100MHz	250	-	300	-	200	-	250	-	MHz
C_{ob}	V_{CB} =5.0V, I_{E} =0, f=100kHz	-	4.0	-	4.0	-	4.5	-	4.5	pF
C _{ib}	V_{EB} =0.5V, I_{C} =0, f=100kHz	-	8.0	-	8.0	-	10	-	10	pF
NF	V_{CE} =5.0V, I_{C} =100 μ A, R_{S} =1.0 $k\Omega$,									
	f=10Hz to 15.7kHz	-	6.0	-	5.0	-	5.0	-	4.0	dB

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TO-92 CASE - MECHANICAL OUTLINE



DIMENSIONS						
	INC	HES	MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A (DIA)	0.175	0.205	4.45	5.21		
В	0.170	0.210	4.32	5.33		
С	0.500	-	12.70	-		
D	0.016	0.022	0.41	0.56		
E	0.1	00	2.54			
F	0.0)50	1.27			
G	0.125	0.165	3.18	4.19		
Н	0.080	0.105	2.03	2.67		
	0.015		0.38			

TO-92 (REV: R1)

LEAD CODE:

- 1) Emitter
- 2) Base
- 3) Collector

MARKING:

R1

FULL PART NUMBER



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Central's operations team provides the highest level of support to insure product is delivered on-time.

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Central's applications engineering team is ready to discuss your design challenges. Just ask.

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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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