2N3250 2N3250A 2N3251 2N3251A

SILICON PNP TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N3250, 2N3251 series devices are silicon PNP transistors designed for small signal, general purpose switching applications.

MARKING: FULL PART NUMBER



MAXIMUM R	ATINGS: (T _A =25°C unless otherwis		IBOL	2N3250 2N3251	2N3250A 2N3251A	UNITS
Collector-Bas	e Voltage		BO	50	60	V
Collector-Emitter Voltage			EO	40	60	V
Emitter-Base	Voltage		BO	5	.0	V
Continuous C	ollector Current	I _C		200		mA
Power Dissipa	ation	PD		36	360	
Power Dissipa	ation (T _C =25°C)	P	P _D 1.2		.2	W
Operating and	d Storage Junction Temperature	TJ,	T _{stg}	-65 to +200		°C
Thermal Resi	stance		JC	146		°C/W
Thermal Resistance		Θ	JA	486		°C/W
EL ECTRICAL	CHARACTERISTICS: /T25°C.	ınlasa ət	homida	notod)		
SYMBOL	_ CHARACTERISTICS: (T _A =25°C ւ TEST CONDITIONS		inerwise i		ΑX	UNITS
I _{CEV}	V _{CF} =40V, V _{FB} =3.0V			2		nA
BV _{CBO}	I _C =10μA (2N3250, 2N3251)	5	50			V
BVCBO	I _C =10μA (2N3250A, 2N3251A)	6	60			V
BVCEO	I _C =10mA (2N3250, 2N3251)	4	10			V
BVCEO	I _C =10mA (2N3250A, 2N3251A)	6	0			V
BVEBO	I _E =10μA	5	.0			V
VCE(SAT)	I _C =10mA, I _B =1.0mA			0.	25	V
VCE(SAT)	I _C =50mA, I _B =5.0mA			0.	50	V
V _{BE} (SAT)	I _C =10mA, I _B =1.0mA	0.	60	0.	90	V
V _{BE} (SAT)	I _C =50mA, I _B =5.0mA			1.:	20	V
			3250		3251	
			250A	· · · · · · · · · · · · · · · · · · ·	251A	
L	\\ -4.0\\ L =0.4\\	MIN	MAX	MIN	MAX	
h _{FE}	V _{CE} =1.0V, I _C =0.1mA	40 45	-	80	_	
h _{FE}	V _{CE} =1.0V, I _C =1.0mA	45 50	- 150	90 100	300	
h _{FE}	V _{CE} =1.0V, I _C =10mA	50			300	
hFE	V _{CE} =1.0V, I _C =50mA	15	-	30	_	

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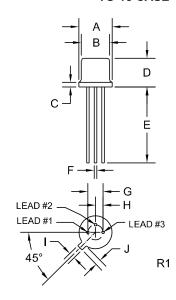
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ELECTRICAL CHARACTERISTICS - Continued: (T_A=25°C unless otherwise noted)

		2N3250 <u>2N3250A</u>		2N3251 <u>2N3251A</u>		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
f_T	V _{CE} =20V, I _C =10mA, f=100MHz	250	-	300	-	MHz
C _{ob}	V _{CB} =10V, I _E =0, f=100kHz	-	6.0	-	6.0	pF
C_{ib}	V _{EB} =1.0V, I _C =0, f=100kHz	-	8.0	-	8.0	pF
NF	V _{CE} =5.0V, I _C =100μA,					
	$R_S=1.0k\Omega$, f=100Hz	-	6.0	-	6.0	dB
ton	V_{CC} =3.0V, V_{BE} =0.5V,					
	I _C =10mA, I _{B1} =1.0mA	-	70	-	70	ns
toff	V_{CC} =3.0V, I_{C} =10mA,					
	I _{B1} =I _{B2} =1.0mA	-	225	-	250	ns

TO-18 CASE - MECHANICAL OUTLINE



DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
A (DIA)	0.209	0.230	5.31	5.84	
B (DIA)	0.178	0.195	4.52	4.95	
С	-	0.030	-	0.76	
D	0.170	0.210	4.32	5.33	
E	0.500	-	12.70	-	
F (DIA)	0.016	0.019	0.41	0.48	
G (DIA)	0.100		2.54		
Н	0.050		1.27		
I	0.036	0.046	0.91	1.17	
J	0.028	0.048	0.71	1.22	

TO-18 (REV: R1)

LEAD CODE:

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

MARKING:

FULL PART NUMBER

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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