

[查询ZTX1151A供应商](#)

[捷多邦，专业PCB打样工厂](#)

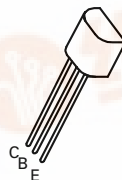
PNP SILICON PLANAR MEDIUM POWER , 24小时加急出货 HIGH GAIN TRANSISTOR

ZTX1151A

ISSUE 1 - JANUARY 1997

FEATURES

- * $V_{CEO} = -40V$
- * 3 Amp Continuous Current
- * 5 Amp Pulse Current
- * Low Saturation voltage
- * High Gain



E-Line
TO92 Compatible

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-45	V
Collector-Emitter Voltage	V_{CEO}	-40	V
Emitter-Base Voltage	V_{EBO}	-5	V
Peak Pulse Current	I_{CM}	-5	A
Continuous Collector Current	I_C	-3	A
Base Current	I_B	-500	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	1	W
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +200	$^{\circ}C$



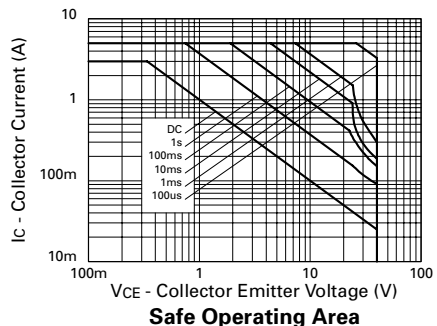
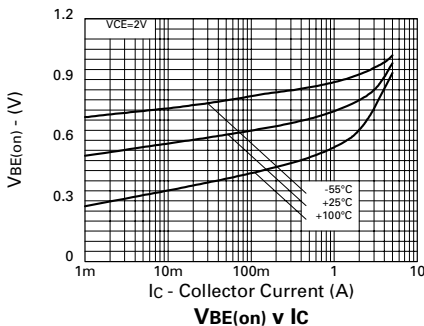
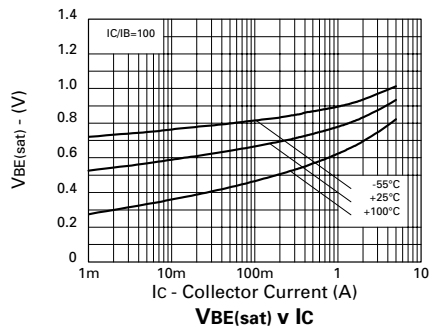
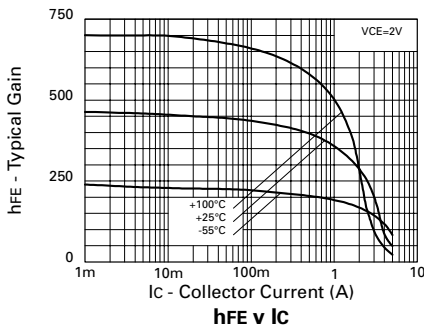
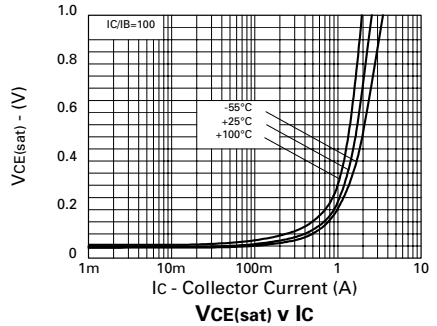
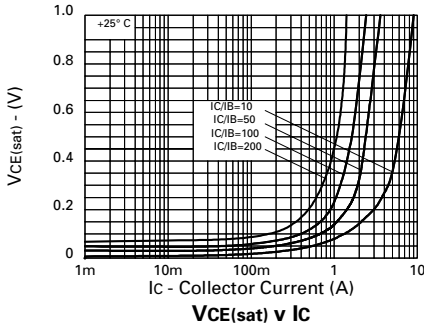
ZTX1151A

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}\text{C}$ unless otherwise stated).

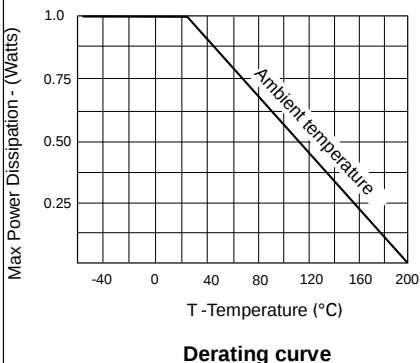
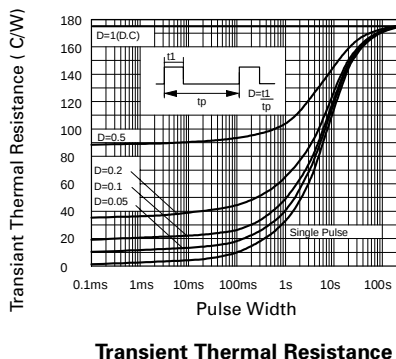
PARAMETER	SYMBOL	VALUE			UNIT	CONDITIONS.
		MIN.	TYP.	MAX.		
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-45	-95		V	$I_C = -100\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CES}$	-40	-90		V	$I_C = -100\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-40	-85		V	$I_C = -10\text{mA}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEV}$	-40	-90		V	$I_C = -100\mu\text{A}$, $V_{EB} = +1\text{V}$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5	-8.5		V	$I_E = -100\mu\text{A}$
Collector Cut-Off Current	I_{CBO}		-0.3	-100	nA	$V_{CB} = -36\text{V}$
Emitter Cut-Off Current	I_{EBO}		-0.3	-100	nA	$V_{EB} = -4\text{V}$
Collector Emitter Cut-Off Current	I_{CES}		-0.3	-100	nA	$V_{CE} = -32\text{V}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		-60	-90	mV	$I_C = -0.1\text{A}$, $I_B = -1.0\text{mA}^*$
			-115	-170	mV	$I_C = -0.5\text{A}$, $I_B = -5\text{mA}^*$
			-135	-210	mV	$I_C = -1\text{A}$, $I_B = -20\text{mA}^*$
			-160	-230	mV	$I_C = -1.8\text{A}$, $I_B = -70\text{mA}^*$
			-180	-240	mV	$I_C = -3\text{A}$, $I_B = -250\text{mA}^*$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-950	-1050	mV	$I_C = -3\text{A}$, $I_B = -250\text{mA}^*$
Base-Emitter Turn-On Voltage	$V_{BE(on)}$		-815	-950	mV	$I_C = -3\text{A}$, $V_{CE} = -2\text{V}^*$
Static Forward Current Transfer Ratio	h_{FE}	270	450	800		$I_C = -10\text{mA}$, $V_{CE} = -2\text{V}^*$
		250	400			$I_C = -0.5\text{A}$, $V_{CE} = -2\text{V}^*$
		180	300			$I_C = -2\text{A}$, $V_{CE} = -2\text{V}^*$
		100	190			$I_C = -3\text{A}$, $V_{CE} = -2\text{V}^*$
			40			$I_C = -5\text{A}$, $V_{CE} = -2\text{V}^*$
Transition Frequency	f_T		145		MHz	$I_C = -50\text{mA}$, $V_{CE} = -10\text{V}$ $f = 50\text{MHz}$
Output Capacitance	C_{cb}		40		pF	$V_{CB} = -10\text{V}$, $f = 1\text{MHz}$
Switching Times	t_{on}		170		ns	$I_C = -2\text{A}$, $I_B = -20\text{mA}$, $V_{CC} = -30\text{V}$

ZTX1151A

TYPICAL CHARACTERISTICS



ZTX1151A



*ZETEX ZTX1151 Spice model Last revision 12/12/96

*

.MODEL ZTX1151 PNP IS =1.7e-12 NF =1.004 ISE=1.02e-13 NE =1.55 BF =562

+ VAF=26.01 IKF=3.5 NR =.97 ISC= 1.5e-13 NC =1.3

+ BR =38 VAR=2.41 IKR=0.3 RE =25.37e-3 RB =250e-3

+ RC =25e-3 CJE=440e-12 CJC=160e-12 VJC=1.058

+ MJC= 0.5678 TF =0.8e-9 TR =55.5e-9

*

*

©1995 ZETEX PLC

The copyright in this model and the design embodied belong to Zetex PLC ("Zetex"). It is supplied free of charge by Zetex for the purpose of research and design and may be used or copied intact (including this notice) for that purpose only. All other rights are reserved. The model is believed accurate but no condition or warranty as to its merchantability or fitness for purpose is given and no liability in respect of any use is accepted by Zetex PLC, its distributors or agents.



ZETEX Zetex plc.

Fields New Road, Chadderton, Oldham, OL9-8NP, United Kingdom.
Telephone: (44)161 622 4422 (Sales), (44)161 622 4444 (General Enquiries)
Fax: (44)161 622 4420

Zetex GmbH
Streitfeldstraße 19
D-81673 München
Germany
Telephone: (49) 89 45 49 49 0
Fax: (49) 89 45 49 49 49

Zetex Inc.
47 Mall Drive, Unit 4
Commack NY 11725
USA
Telephone: (516) 543-7100
Fax: (516) 864-7630

Zetex (Asia) Ltd.
3510 Metroplaza, Tower 2
Hing Fong Road,
Kwai Fong, Hong Kong
Telephone: (852) 26100 611
Fax: (852) 24250 494

These are supported by
agents and distributors in
major countries world-wide
©Zetex plc 1997

Internet: <http://www.zetex.com>