

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







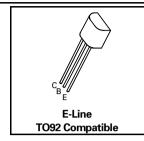
PNP SILICON PLANAR MEDIUM POWER TRANSISTORS

ZTX552 ZTX553

ISSUE 1 - MARCH 94

FEATURES

- * 100 Volt V_{CEO}
- * 1 Amp continuous current
- * P_{tot}=1 Watt



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	ZTX552	ZTX553	UNIT
Collector-Base Voltage	V _{CBO}	-100	-120	V
Collector-Emitter Voltage	V _{CEO}	-80	-100	V
Emitter-Base Voltage	V _{EBO}	-5		V
Peak Pulse Current	I _{CM}	-	Α	
Continuous Collector Current	I _C	-	Α	
Power Dissipation: at T _{amb} =25°C derate above 25°C	P _{tot}	1 5.7		W mW/°C
Operating and Storage Temperature Range	$T_{j:}T_{stg}$	-55 to +200		°C

ELECTRICAL CHARACTERISTICS (at Tamb = 25°C).

· dillo										
PARAMETER	SYMBOL	ZTX	(552	ZTX553		UNIT	CONDITIONS.			
		MIN.	MAX.	MIN.	MAX.					
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-100		-120		V	I _C =-100μA			
Collector-Emitter Sustaining Voltage	V _{CEO(sus)}	-80		-100		V	I _C =-10mA			
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5		-5		V	I _E =-100μA			
Collector Cut-Off Current	I _{CBO}		-0.1		-0.1	μА	V _{CB} =-80V V _{CB} =-100V			
Emitter Cut-Off Current	I _{EBO}		-0.1		-0.1	μΑ	V _{EB} =-4V			
Collector-Emitter Saturation Voltage	V _{CE(sat)}		-0.25		-0.25	V	I _C =-150mA, I _B =-15mA*			
Base-Emitter Saturation Voltage	V _{BE(sat)}		-1.1		-1.1	V	I _C =-150mA, I _B =-15mA*			
Base-Emitter Turn-onn Voltage	V _{BE(on)}		-1.0		-1.0	V	I _C =-150mA, V _{CE} =-10V*			
Static Forward Current Transfer Ratio	h _{FE}	40 10	150	40 10	200		I _C =-150mA, V _{CE} =-10V* I _C =-1A, V _{CE} =-10V*			
Transition Frequency	f _T	150		150		MHz	I _C =-50mA, V _{CE} =-10V f=100MHz			
Output Capacitance	C _{obo}		12		12	MHz	V _{CB} =-10V, f=1MHz			

^{*}Measured under pulsed conditions. Pulse width=300µs. Duty cycle ≤2%

ZTX552 ZTX553

TYPICAL CHARACTERISTICS

