

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!



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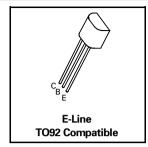
NPN SILICON PLANAR MEDIUM POWER TRANSISTORS

ZTX454 ZTX455

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FEATURES

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



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	ZTX454	ZTX455	UNIT
Collector-Base Voltage	V _{CBO}	140	160	V
Collector-Emitter Voltage	V_{CEO}	120	140	٧
Emitter-Base Voltage	V_{EBO}	5		V
Peak Pulse Current	I _{CM}	2		Α
Continuous Collector Current	I _C		Α	
Power Dissipation at T _{amb} =25°C	P _{tot}	1		W
Operating and Storage Temperature Range	T _j :T _{stg}	-55 to +200		°C

ELECTRICAL CHARACTERISTICS (at T_{amb} = 25°C).

unio										
PARAMETER	SYMBOL	ZT	X454	ZTX455		UNIT	CONDITIONS.			
		MIN.	MAX.	MIN.	MAX.					
Collector-Base Breakdown Voltage	V _{(BR)CBO}	140		160		V	I _C =100μA			
Collector-Emitter Sustaining Voltage	V _{CEO(sus)}	120		140		V	I _C =10mA*			
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5		5		V	$I_E=100\mu A$			
Collector Cut-Off Current	I _{CBO}		0.1		0.1	μ Α μ Α	V _{CB} =140V V _{CB} =120V			
Emitter Cut-Off Current	I _{EBO}		0.1		0.1	μА	V _{EB} =4V			
Collector-Emitter Saturation Voltage	V _{CE(sat)}		0.7 1.0		0.7	V	I _C =150mA, I _B =15mA I _C =200mA, I _B =20mA			
Static Forward Current Transfer Ratio	h _{FE}	100 30 10†	300	100 10†	300		I _C =150mA, V _{CE} =10V* I _C =200mA, V _{CE} =1V* I _C =1A, V _{CE} =10V*			
Transition Frequency	f _T	100		100		MHz	I _C =50mA, V _{CE} =10V f=100MHz			
Output Capacitance	C _{obo}		15		15	pF	V _{CB} =10V, f=1MHz			

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

[†] Typical

ZTX454 ZTX455



