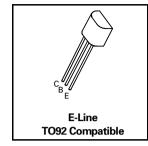
NPN SILICON PLANAR MEDIUM POWER TRANSISTORS

ZTX452 ZTX453

ISSUE 2 – MARCH 1994

FEATURES

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



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	ZTX452	ZTX453	UNIT
Collector-Base Voltage	V_{CBO}	100	٧	
Collector-Emitter Voltage	V_{CEO}	80	100	٧
Emitter-Base Voltage	V_{EBO}	5		٧
Peak Pulse Current	I _{CM}	2		Α
Continuous Collector Current	I _C	1		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).

PARAMETER	SYMBOL	ZT.	X452	ZTX453		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	μ Α μ Α	V _{CB} =80V V _{CB} =100V	
Emitter Cut-Off Current	I _{EBO}		0.1		0.1	μА	V _{EB} =4V	
Collector-Emitter Saturation Voltage	V _{CE(sat)}		0.7		0.7	V	I _C =150mA, I _B =15mA*	
Base-Emitter Saturation Voltage	V _{BE(sat)}		1.3		1.3	V	I _C =150mA, I _B =15mA*	
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}		15		15	pF	V _{CB} =10V, f=1MHz	

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