



THE DATASHEET OF ZTX956STZ

ZTX956

PNP SILICON PLANAR ME
HIGH CURRENT TRANSIS
ISSUE 3 – JUNE 94

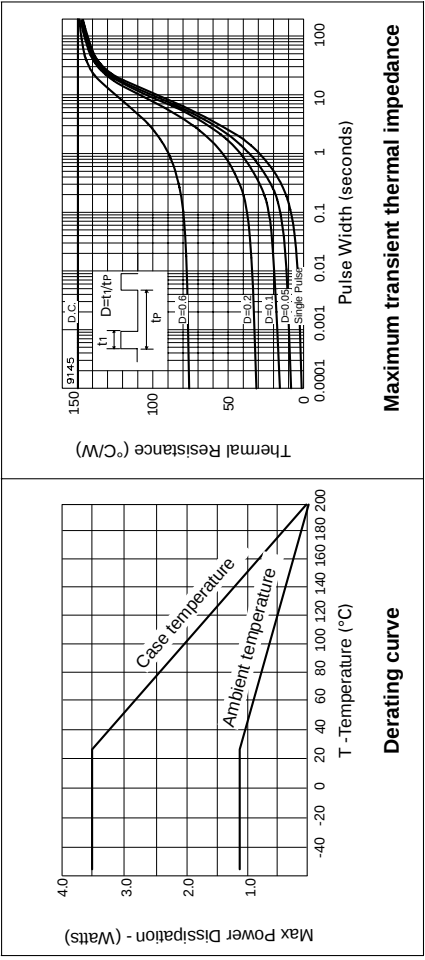
ELECTRICAL CHARACTERISTICS (at T_{amb} = 25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Base-Emitter Turn-On Voltage	V _{BE(on)}		-770	-900	mV	I _C =-2A, V _{CE} =-5V*
Static Forward Current Transfer Ratio	h _{FE}	100	200	300		I _C =-10mA, V _{CE} =-5V*
		100	200			I _C =-1A, V _{CE} =-5V*
		50	150			I _C =-2A, V _{CE} =-5V*
			10			I _C =-5A, V _{CE} =-5V*
Transition Frequency	f _T		110		MHz	I _C =-100mA, V _{CE} =-10V f _s =50MHz
Output Capacitance	C _{obo}		32		pF	V _{CE} =-20V, f=1MHz
Switching Times	t _{on}		67		ns	I _C =-1A, I _B =-100mA
	t _{off}		1140		ns	I _B =-100mA, V _{CE} =-50V

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

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	MAX.	UNIT
Thermal Resistance: Junction to Ambient Junction to Case	R _{th(j-amb)} R _{th(j-case)}	150 50	°C/W °C/W



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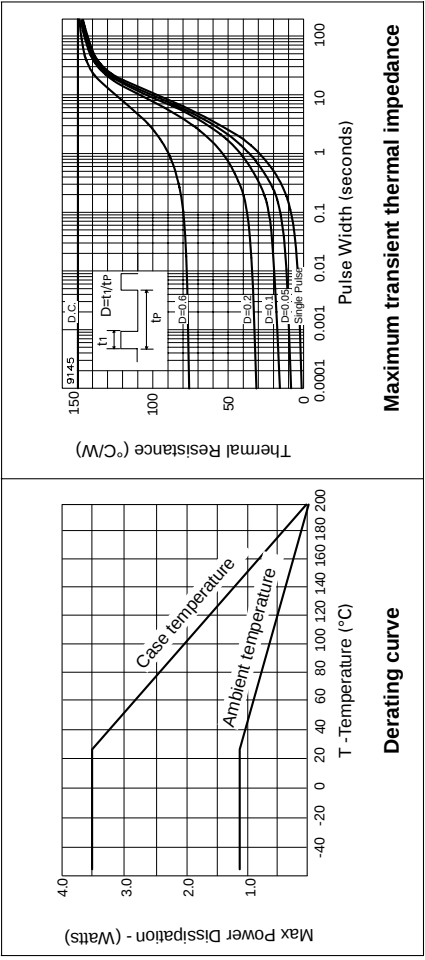
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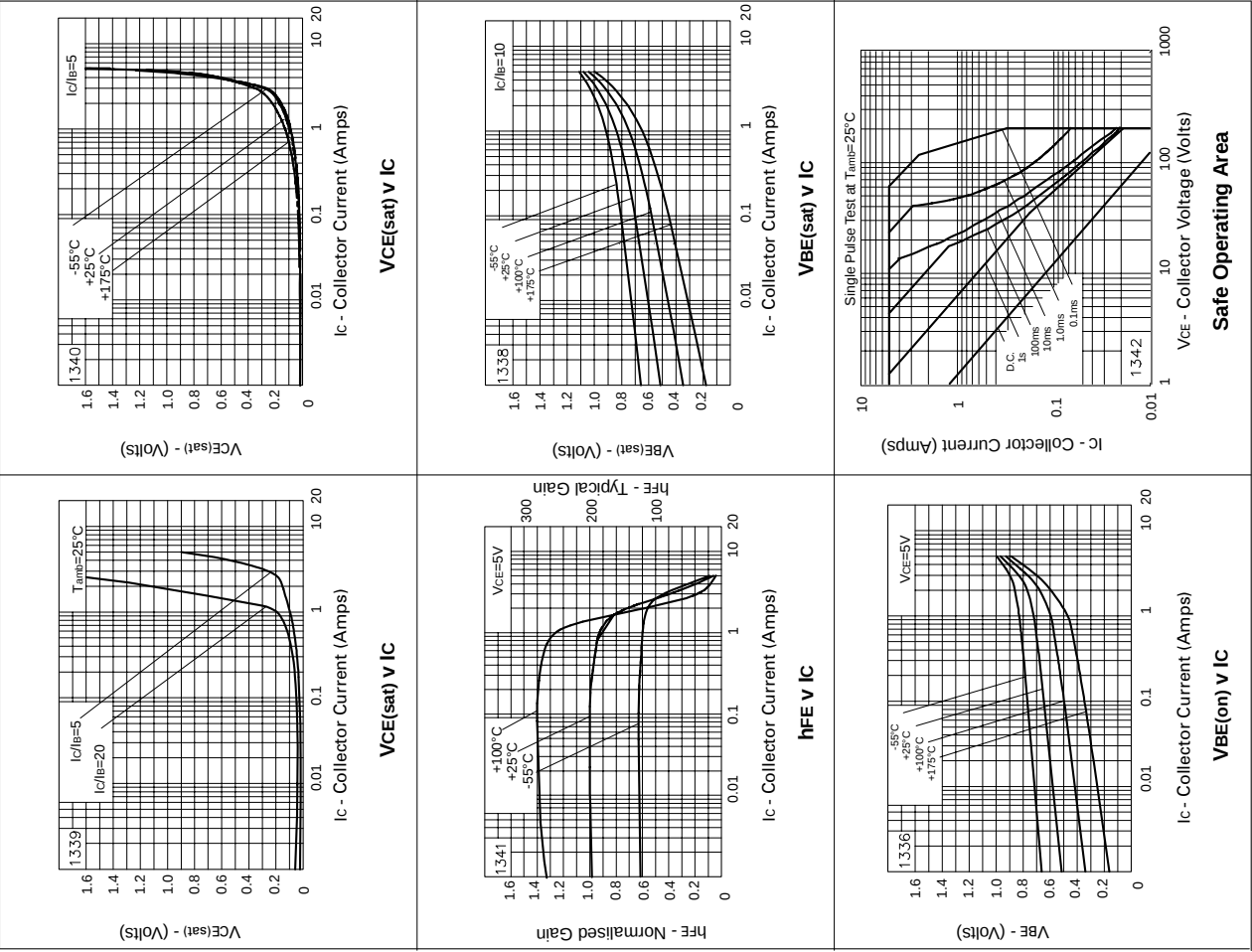
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TYPICAL CHARACTERISTICS



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