



THE DATASHEET OF ZTX657STZ



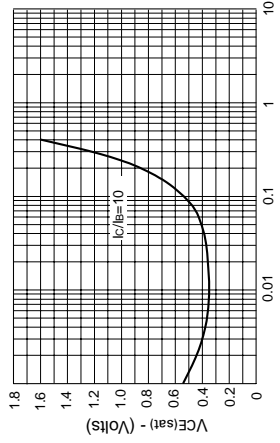
ZTX656 ZTX657

NPN SILICON PLANAR ME HIGH VOLTAGE TRANSIS ISSUE 2 - JULY 94

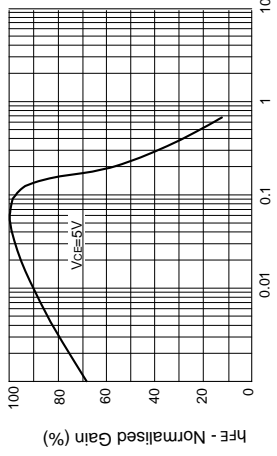
FEATURES

- * 300 Volt V_{CE0}
- * 0.5 Amp continuous current
- * $P_{tot}=1$ Watt

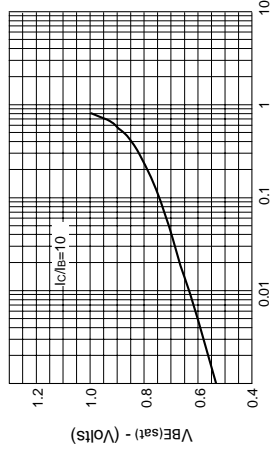
TYPICAL CHARACTERISTICS



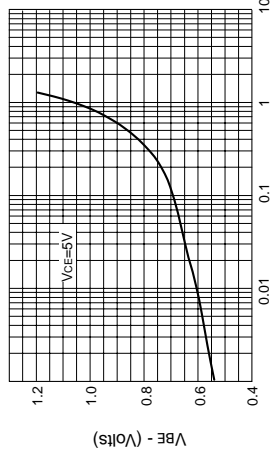
$V_{CE(sat)}$ v I_C
 $I_C/I_B=10$
IC - Collector Current (Amps)



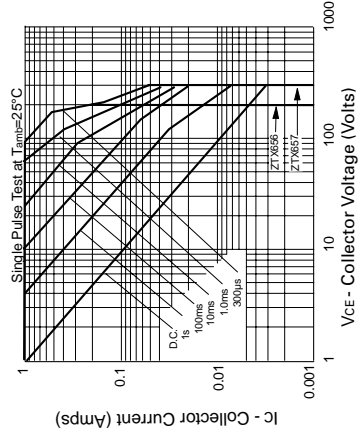
h_{FE} v I_C
 $V_{CE}=5V$
IC - Collector Current (Amps)



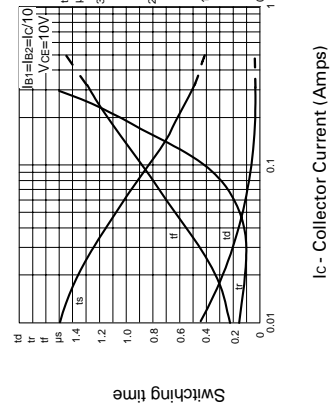
$V_{BE(sat)}$ v I_C
 $I_C/I_B=10$
IC - Collector Current (Amps)



$V_{BE(on)}$ v I_C
 $V_{CE}=5V$
IC - Collector Current (Amps)



Safe Operating Area



IC - Collector Current (Amps)

Switching Speeds

ABSOLUTE MAXIMUM RATINGS

PARAMETER	
Collector-Base Voltage	
Collector-Emitter Voltage	
Emitter-Base Voltage	
Peak Pulse Current	
Continuous Collector Current	
Power Dissipation at $T_{amb}=25^{\circ}C$	
Operating and Storage Temperature Range	

ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	MIN
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	200
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	200
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5
Collector Cut-Off Current	I_{CBO}	
Emitter Cut-Off Current	I_{EBO}	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	
Base-Emitter Turn-On Voltage	$V_{BE(on)}$	
Static Forward Current Transfer Ratio	h_{FE}	50 40
Transition Frequency	f_T	30

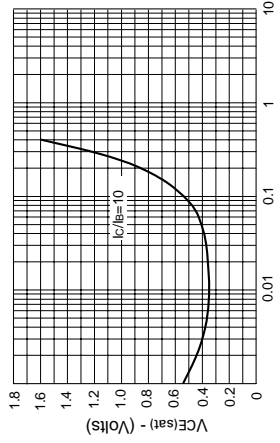
ZTX656 ZTX657

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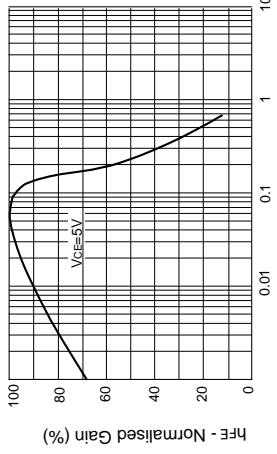
FEATURES

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- * 0.5 Amp continuous current
- * $P_{tot}=1$ Watt

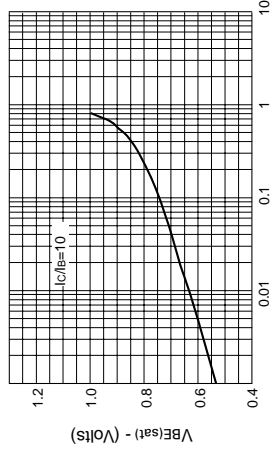
TYPICAL CHARACTERISTICS



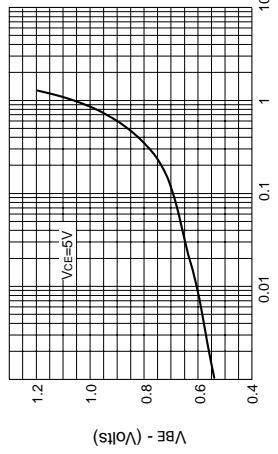
$V_{CE(sat)}$ v I_C
 $I_C/I_B=10$
IC - Collector Current (Amps)



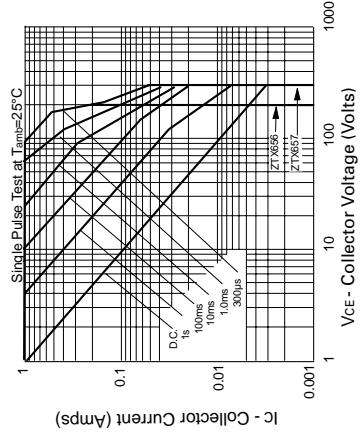
h_{FE} v I_C
 $V_{CE}=5V$
IC - Collector Current (Amps)



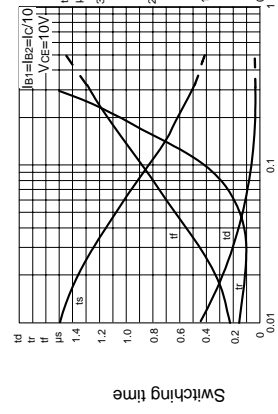
$V_{BE(sat)}$ v I_C
 $I_C/I_B=10$
IC - Collector Current (Amps)



$V_{BE(on)}$ v I_C
 $V_{CE}=5V$
IC - Collector Current (Amps)



Safe Operating Area
 V_{CE} - Collector Voltage (Volts)



Switching Speeds
 $I_B=I_C/10$
 $V_{CE}=10V$
IC - Collector Current (Amps)

ABSOLUTE MAXIMUM RATINGS



PARAMETER	
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Collector-Emitter Voltage	
Emitter-Base Voltage	
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Base-Emitter Saturation Voltage	$V_{BE(sat)}$	
Base-Emitter Turn-On Voltage	$V_{BE(on)}$	
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Transition Frequency	f_T	30

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