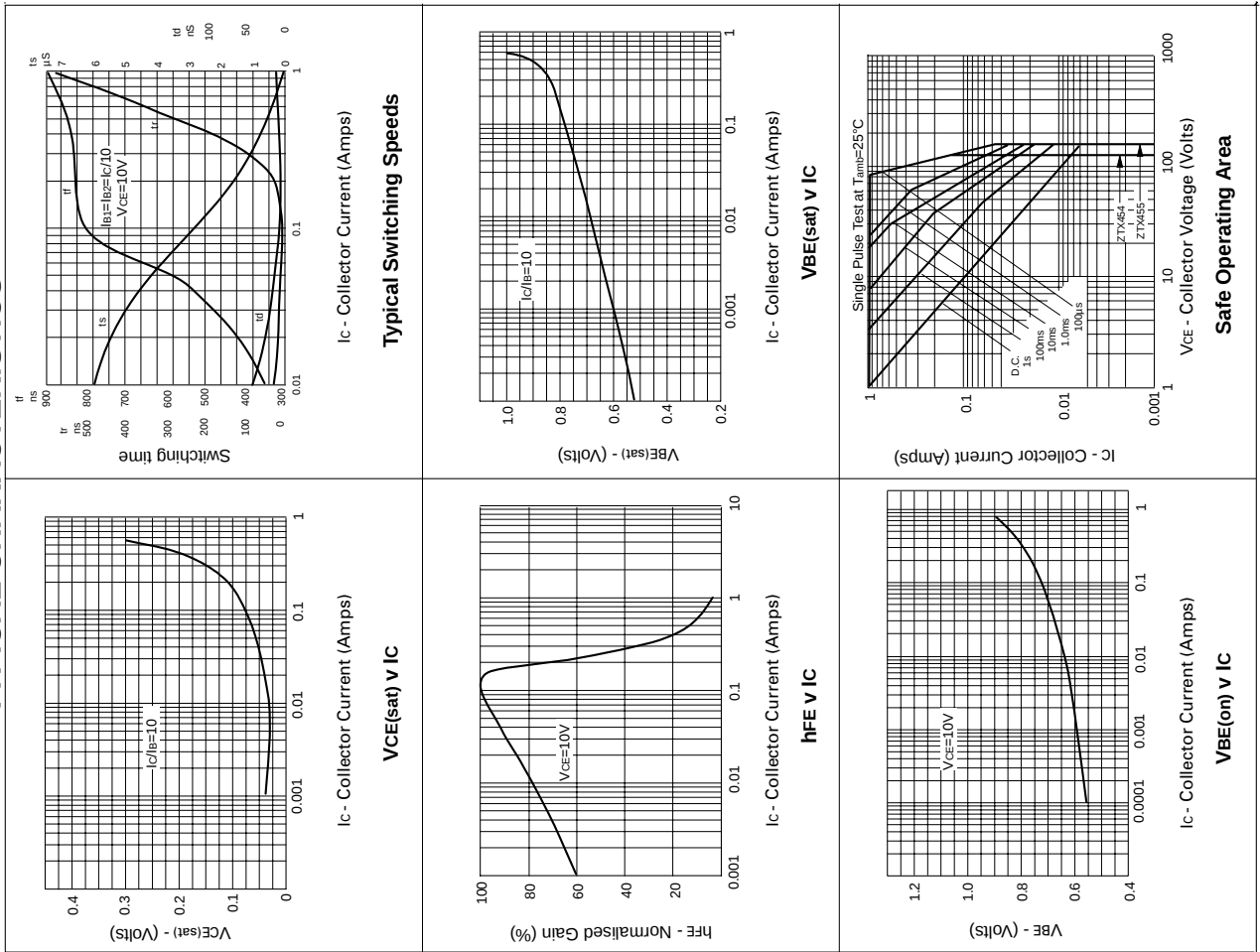


TYPICAL CHARACTERISTICS



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	ZTX454	ZTX455	UNIT
Collector-Base Voltage	V_{CB0}	140	160	V
Collector-Emitter Voltage	V_{CE0}	120	140	V
Emitter-Base Voltage	V_{EB0}	5		V
Peak Pulse Current	I_{CM}	2		A
Continuous Collector Current	I_C	1		A
Power Dissipation at $T_{amb}=25^{\circ}\text{C}$	P_{tot}	1		W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 to +200		$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}\text{C}$).

PARAMETER	SYMBOL	UNIT				CONDITIONS.
		ZTX454		ZTX455		
		MIN.	MAX.	MIN.	MAX.	
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	140		160		V $I_C=100\mu A$
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	μA μA $V_{CB}=140V$ $V_{CB}=120V$
Emitter Cut-Off Current	I_{EBO}		0.1		0.1	μA $V_E=4V$
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=300 μ s. Duty cycle $\leq$ 2%
† Typical