

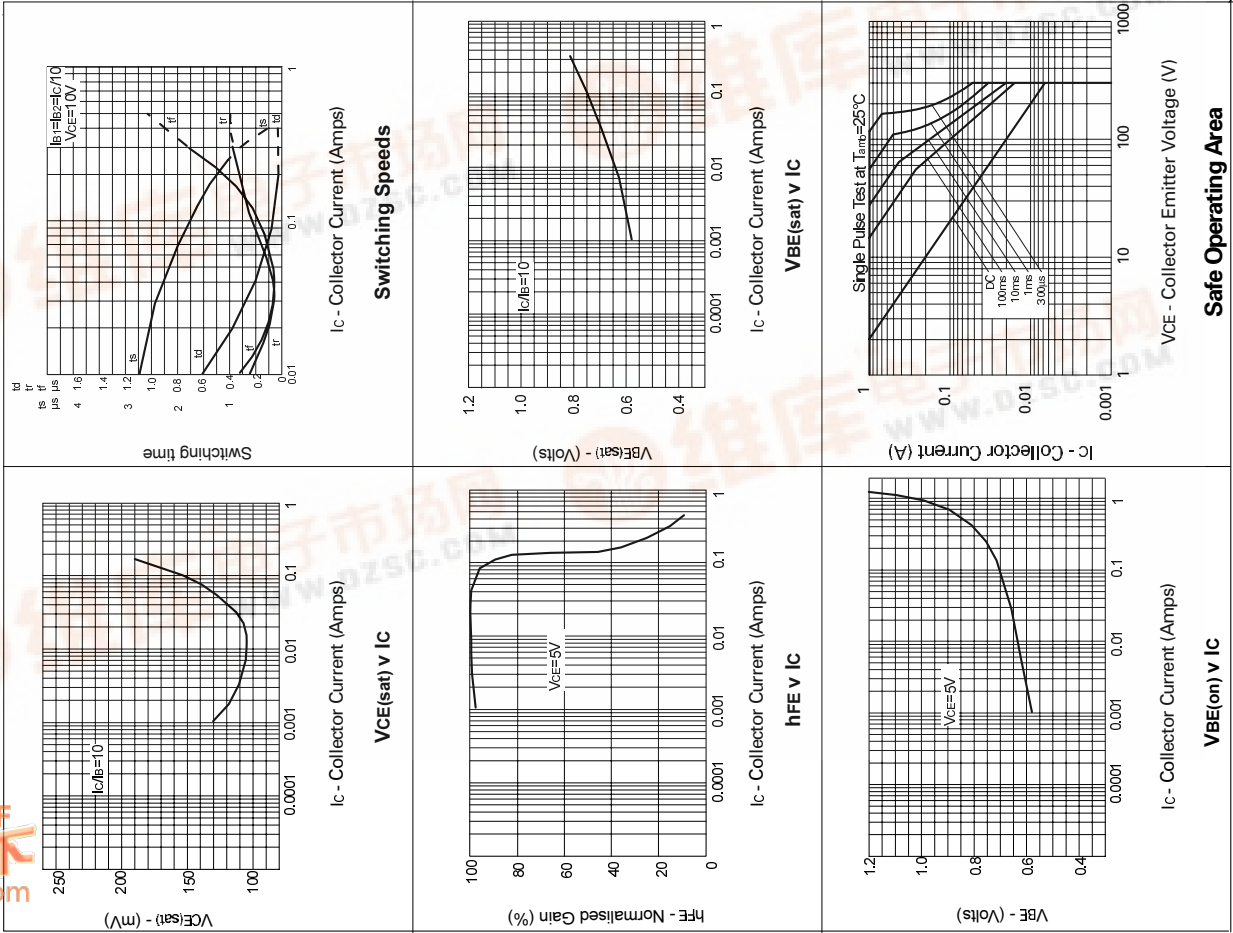


FZT757

SOT223 PNP SILICON PLANAR HIGH VOLTAGE TRANSISTOR

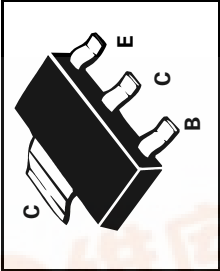
ISSUE 4 - JANUARY 1996

TYPICAL CHARACTERISTICS



FEATURES

- * Low saturation voltage
 - * 300V V_{CE}
- COMPLEMENTARY TYPE - FZT657
PARTMARKING DETAIL - FZT757



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-300	V
Collector-Emitter Voltage	V_{CEO}	-300	V
Emitter-Base Voltage	V_{EBO}	-5	V
Peak Pulse Current	I_{CM}	-1	A
Continuous Collector Current	I_C	-0.5	A
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	2	W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 to +150	$^{\circ}C$

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-300			V	$I_C = 100\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-300			V	$I_C = 10mA^*$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_E = 100\mu A$
Collector Cut-Off Current	I_{CBO}			-0.1	μA	$V_{CE} = 200V$
Emitter Cut-Off Current	I_{EBO}			-0.1	μA	$V_{EB} = 3V$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.5	V	$I_C = 100mA, I_B = 10mA^*$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			-1.0	V	$I_C = 100mA, I_B = 10mA^*$
Base-Emitter Turn-On Voltage	$V_{BE(on)}$			-1.0	V	$I_C = 100mA, V_{CE} = 5V^*$
Static Forward Current Transfer Ratio	h_{FE}	40	50			$I_C = 10mA, V_{CE} = 5V^*$ $I_C = 100mA, V_{CE} = 5V^*$
Transition Frequency	f_T	30			MHz	$I_C = 10mA, V_{CE} = 20V$ $f = 20MHz$
Output Capacitance	C_{ob0}			20	pF	$V_{CE} = 20V, f = 1MHz$

*Measured under pulsed conditions. Pulse Width=300 μs . Duty cycle $\leq 2\%$
Spice parameter data is available upon request for this device

查询FZT757供应商

捷多邦, 专业PCB打样工厂, 24小时加急出货

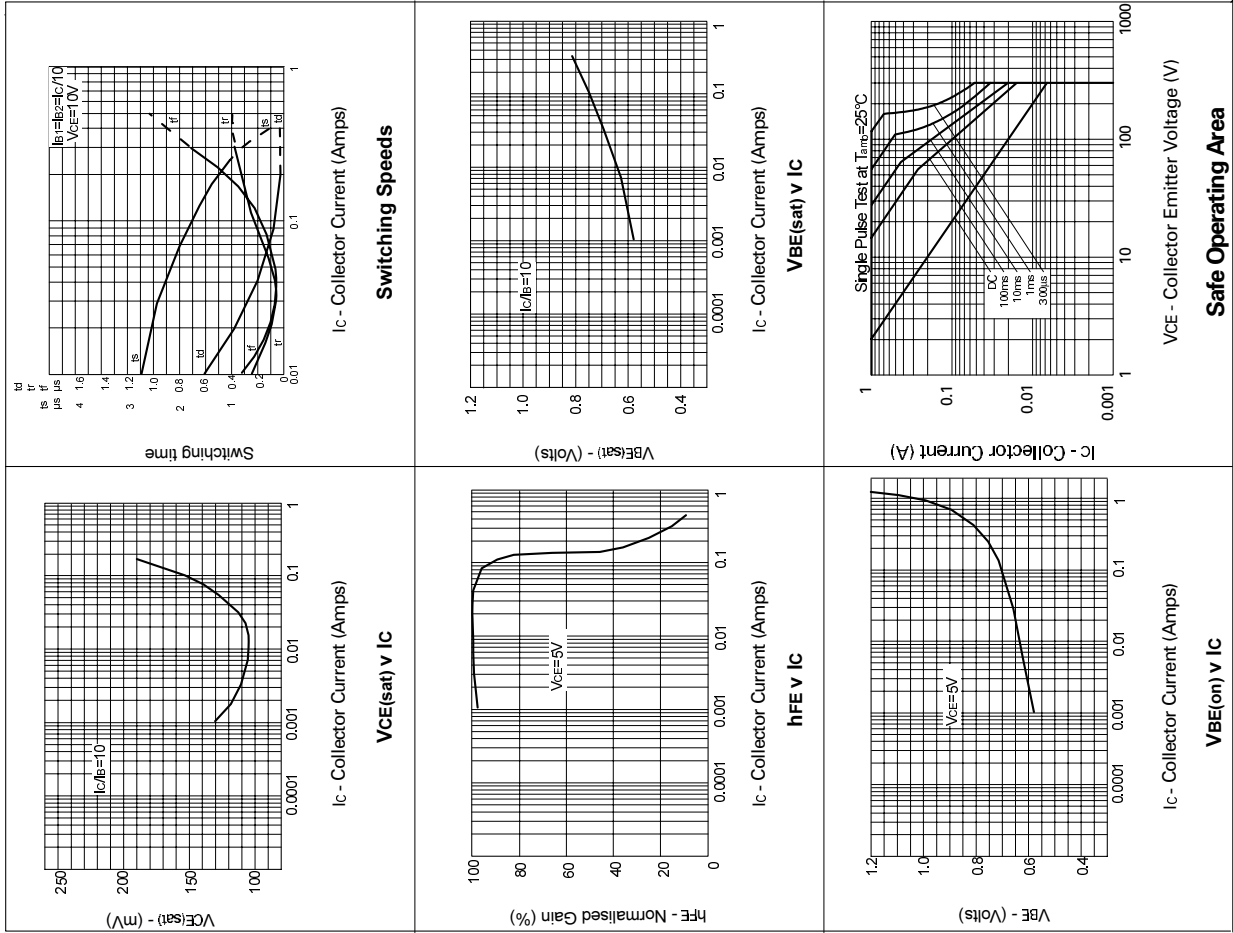
FZT757

**SOT223 PNP SILICON PLANAR
HIGH VOLTAGE TRANSISTOR**

ISSUE 4 - JANUARY 1996

FZT757

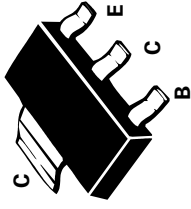
TYPICAL CHARACTERISTICS



FEATURES

- * Low saturation voltage
- * 300V V_{CE}

COMPLEMENTARY TYPE - FZT657
PARTMARKING DETAIL - FZT757



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-300	V
Collector-Emitter Voltage	V_{CEO}	-300	V
Emitter-Base Voltage	V_{EBO}	-5	V
Peak Pulse Current	I_{CM}	-1	A
Continuous Collector Current	I_C	-0.5	A
Power Dissipation at $T_{amb}=25^\circ\text{C}$	P_{tot}	2	W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 to +150	$^\circ\text{C}$

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-300			V	$I_C = 100\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-300			V	$I_C = 10\text{mA}^*$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_E = 100\mu\text{A}$
Collector Cut-Off Current	I_{CBO}			-0.1	μA	$V_{CE} = 200\text{V}$
Emitter Cut-Off Current	I_{EBO}			-0.1	μA	$V_{EB} = 3\text{V}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.5	V	$I_C = 100\text{mA}, I_B = 10\text{mA}^*$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			-1.0	V	$I_C = 100\text{mA}, I_B = 10\text{mA}^*$
Base-Emitter Turn-On Voltage	$V_{BE(on)}$			-1.0	V	$I_C = 100\text{mA}, V_{CE} = 5\text{V}^*$
Static Forward Current Transfer Ratio	h_{FE}	40				$I_C = 10\text{mA}, V_{CE} = 5\text{V}^*$ $I_C = 100\text{mA}, V_{CE} = 5\text{V}^*$
Transition Frequency	f_T	30			MHz	$I_C = 10\text{mA}, V_{CE} = 20\text{V}$ $f = 20\text{MHz}$
Output Capacitance	C_{obo}			20	pF	$V_{CE} = 20\text{V}, f = 1\text{MHz}$

*Measured under pulsed conditions. Pulse Width=300 μs . Duty cycle $\leq 2\%$
Spice parameter data is available upon request for this device

FZT757