

SOT223 NPN SILICON PLANAR HIGH VOLTAGE TRANSISTOR

FZT658

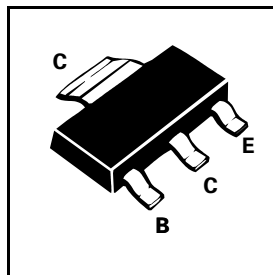
ISSUE 4 - OCTOBER 1995

FEATURES

- * 400 Volt V_{CE0}
- * Low saturation voltage

COMPLEMENTARY TYPE - FZT758

PARTMARKING DETAIL - FZT658



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	400	V
Collector-Emitter Voltage	V_{CEO}	400	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	$^{\circ}C$

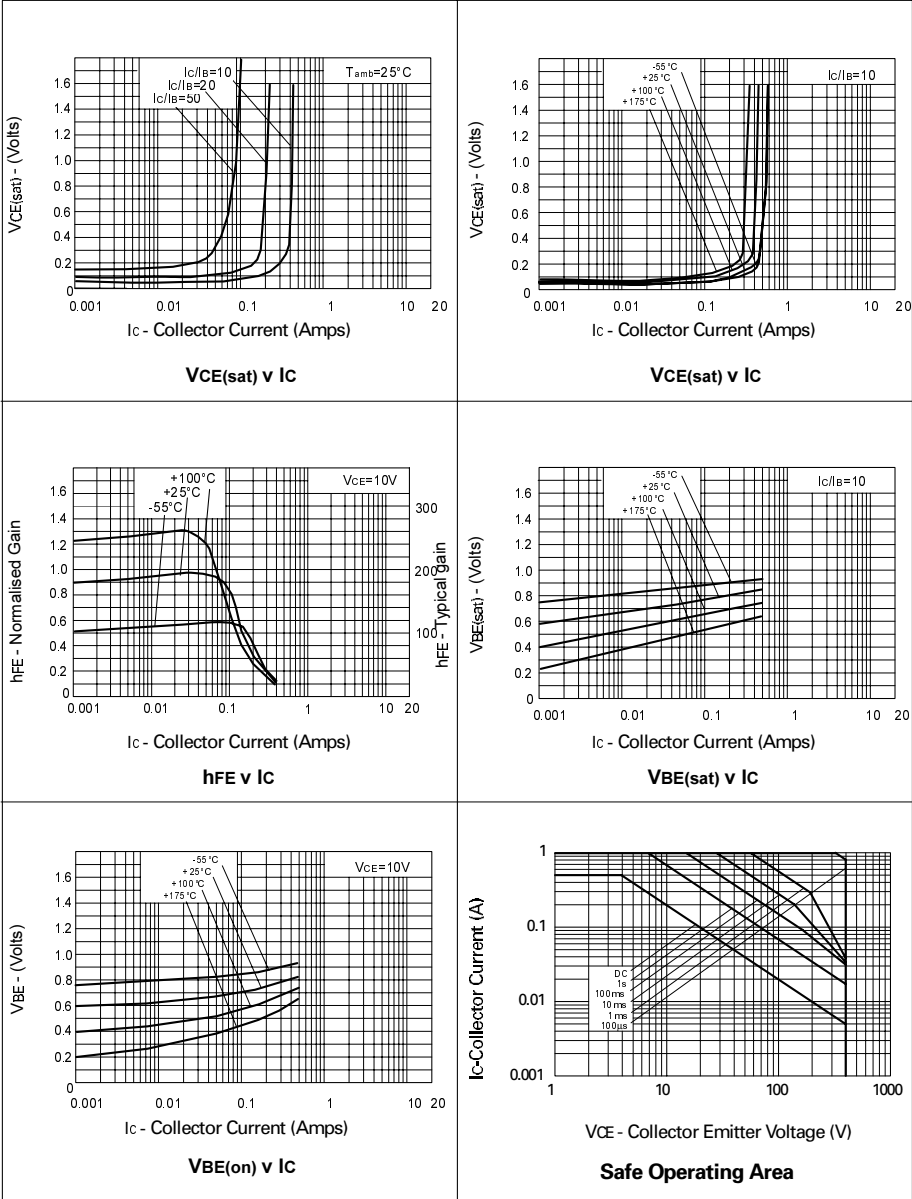
ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$ unless otherwise stated).

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Breakdown Voltage	$V_{(BR)CBO}$	400		V	$I_C=100\mu A$
	$V_{(BR)CEO}$	400		V	$I_C=10mA^*$
	$V_{(BR)EBO}$	5		V	$I_E=100\mu A$
Collector Cut-Off Current	I_{CBO}		100	nA	$V_{CB}=320V$
Emitter Cut-Off Current	I_{EBO}		100	nA	$V_{EB}=4V$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		0.3	V	$I_C=20mA, I_B=1mA^*$
			0.25	V	$I_C=50mA, I_B=5mA^*$
			0.5	V	$I_C=100mA, I_B=10mA$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		0.9	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}	50			$I_C=1mA, V_{CE}=5V^*$
		50			$I_C=100mA, V_{CE}=5V^*$
		40			$I_C=200mA, V_{CE}=10V^*$
Transition Frequency	f_T	50		MHz	$I_C=10mA, V_{CE}=20V$ $f=20MHz$
Output Capacitance	C_{obo}		10	pF	$V_{CB}=20V, f=1MHz$
Switching Times	t_{on}		130	ns	$I_C=100mA, V_{CC}=100V$
	t_{off}		3300	ns	$I_{B1}=10mA, I_{B2}=-20mA$

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

FZT658

TYPICAL CHARACTERISTICS





LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.