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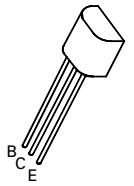
NPN SILICON PLANAR MEDIUM POWER TRANSISTOR

FXT451

ISSUE 1 – SEPT 93

FEATURES

* 60 Volt V_{CEO}
* 1 Amp continuous current
* P_{tot}= 1 Watt



E-Line
TO92 Compatible

REFER TO ZTX451 FOR GRAPHS

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	80	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	5	V
Peak Pulse Current	I_{CM}	2	A
Continuous Collector Current	I_C	1	A
Power Dissipation at T_{amb}=25°C	P_{tot}	1	W
Operating and Storage Temperature Range	T_j:T_{stg}	-55 to +200	°C

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	80			V	I_C=100μA, I_E=0
Collector-Emitter Sustaining Voltage	$V_{CEO(sus)}$	60			V	I_C=10mA, I_B=0*
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5			V	I_E=100μA, I_C=0
Collector Cut-Off Current	I_{CBO}			0.1	μA	V_{CB}=60V, I_E=0
Emitter Cut-Off Current	I_{EBO}			0.1	μA	V_{EB}=4V, I_C=0
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			0.35	V	I_C=150mA, I_B=15mA*
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			1.1	V	I_C=150mA, I_B=15mA*
Static Forward Current Transfer Ratio	h_{FE}	50 10		150		I_C=150mA, V_{CE}=10V* I_C=1A, V_{CE}=10V*
Transition Frequency	f_T	150			MHz	I_C=50mA, V_{CE}=10V f=100MHz
Output Capacitance	C_{obo}			15	pF	V_{CB}=10V, f=1MHz