

PNP SILICON PLANAR MEDIUM POWER DARLINGTON TRANSISTOR

FXT705

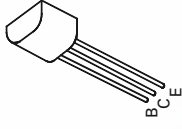
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FEATURES

- * 120 Volt V_{CE0}
 - * Gain of 3K at $I_C=1$ Amp
 - * $P_{tot}=1$ Watt
- ### APPLICATIONS
- * Lamp, solenoid and relay drivers
 - * Replacement of TO126 and TO220 darlington
- REFER TO ZTX705 FOR GRAPHS

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-140	V
Collector-Emitter Voltage	V_{CEO}	-120	V
Emitter-Base Voltage	V_{EBO}	-10	V
Peak Pulse Current	I_{CM}	-4	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	$^\circ\text{C}$



查询FXT705供应商

捷多邦, 专业PCB打样工厂, 24小时加急出货

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-140			V	$I_C=100\mu\text{A}, I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-120			V	$I_C=10\text{mA}, I_B=0^*$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-10			V	$I_E=100\mu\text{A}, I_C=0$
Collector Cut-Off Current	I_{CBO}		-0.1		μA	$V_{CBF}=-120\text{V}, I_E=0$
Collector Cut-Off Current	I_{CES}		-10		μA	$V_{CBF}=-120\text{V}, T_{amb}=100^\circ\text{C}$
Emitter Cut-Off Current	I_{EBO}		-0.1		μA	$V_{EFB}=-8\text{V}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		-1.3		V	$I_C=1\text{A}, I_B=1\text{mA}^*$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-2.5		V	$I_C=2\text{A}, I_B=2\text{mA}^*$
Base-Emitter Turn-On Voltage	$V_{BE(on)}$		-1.8		V	$I_C=1\text{A}, I_B=10\text{mA}^*$
Static Forward Current Transfer Ratio	h_{FE}	3k				$I_C=10\text{mA}, V_{CE}=5\text{V}^*$
Transition Frequency	f_T	3k				$I_C=100\text{mA}, V_{CE}=5\text{V}^*$
		3k				$I_C=1\text{A}, V_{CE}=5\text{V}^*$
		2k				$I_C=2\text{A}, V_{CE}=5\text{V}^*$
Transition Frequency			160		MHz	$I_C=100\text{mA}, V_{CE}=10\text{V}$ $f=20\text{MHz}$