

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Ratings	Unit
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
Ι _C	Collector Current	1	А
P _C	Collector Power Dissipation	800	mW
ТJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

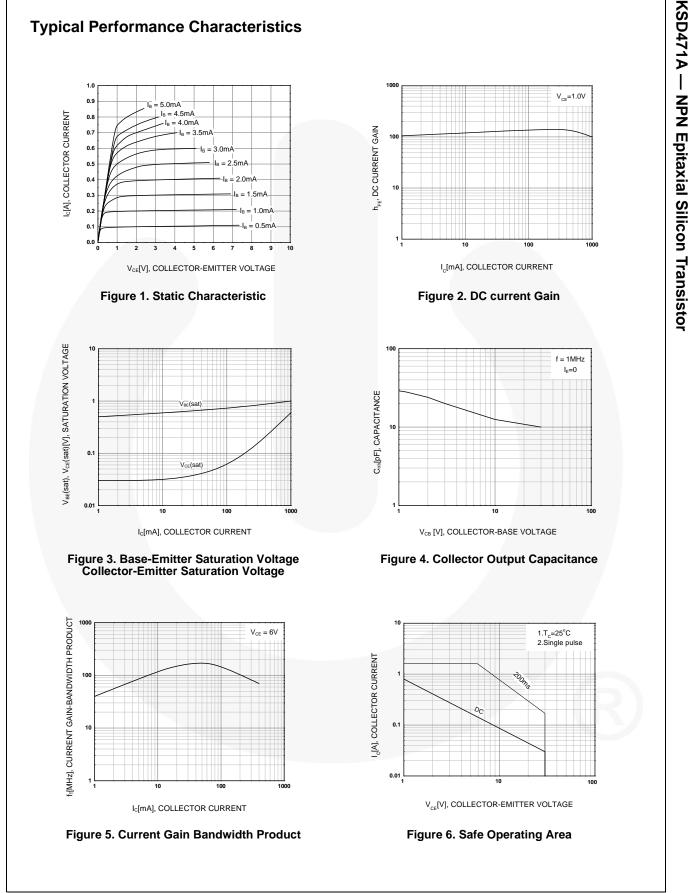
Electrical Characteristics

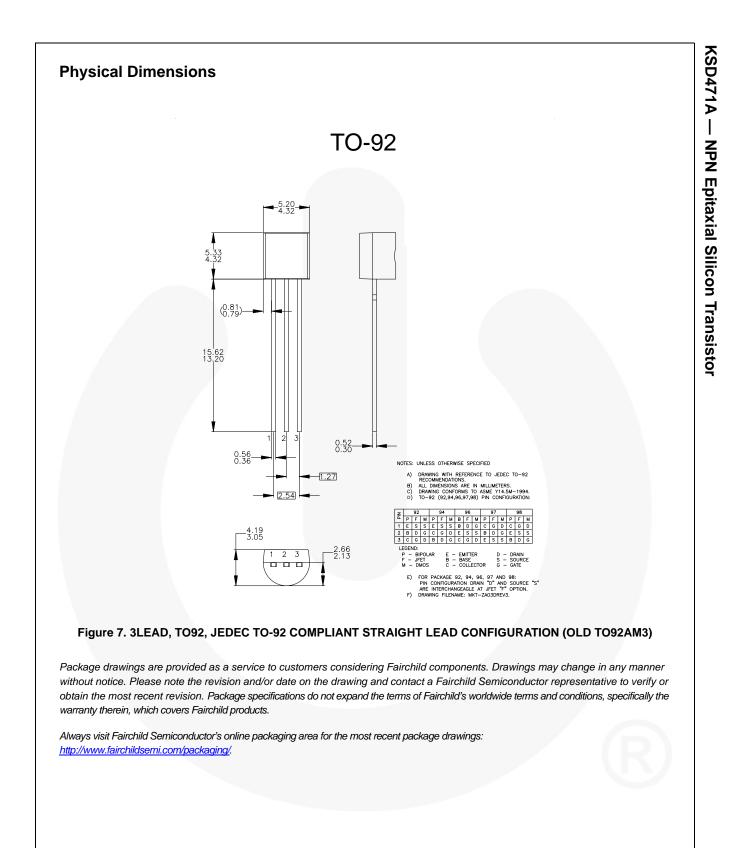
Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Unit
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{C} = 100 \ \mu A, \ I_{E} = 0$	40			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 10 mA, I _B = 0	30			V
BV_EBO	Emitter-Base Breakdown Voltage	$I_{E} = 100 \ \mu A, I_{C} = 0$	5			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = 30 \text{ V}, I_{E} = 0$			0.1	μΑ
h _{FE}	DC Current Gain	$V_{CE} = 1 \text{ V}, I_{C} = 100 \text{ mA}$	120		400	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 1 A, I _B = 0.1 A			0.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 1 A, I _B = 0.1 A			1.2	V
f _T	Current Gain BandWidth Product	$V_{CE} = 6 V, I_{C} = 10 mA$		130		MHz
C _{ob}	Output Capacitance	$V_{CB} = 6 \text{ V}, \text{ I}_{E} = 0,$ f = 1 MHz		16		pF

h_{FE} Classification

Classification	Y	G
h _{FE}	120 ~ 240	200 ~ 400





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