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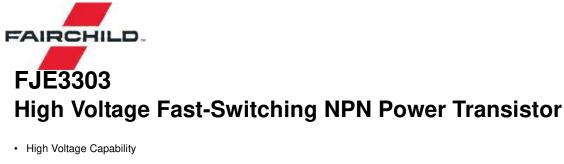
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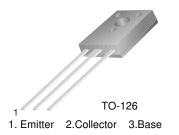
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- High Switching Speed
- · Suitable for Electronic Ballast and Switching Regulator



Absolute Maximum Ratings T_C = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	700	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	9	V
I _C	Collector Current (DC)	1.5	А
I _{CP}	Collector Current (Pulse) *	3	А
I _B	Base Current (DC)	0.75	А
I _{BP}	Base Current (Pulse) *	1.5	А
P _C	Collector Dissipation ($T_C = 25^{\circ}C$)	20	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-65 ~ 150	°C

* Pulse Test: Pulse Width = 5ms, Duty Cycle $\leq 10\%$

Symbol	Parameter	Conditions	Min.	Тур.	Max	Units
BV _{CBO}	Collector-Base Breakdwon Voltage	I _C = 500μA, I _E = 0	700			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 5mA, I _B = 0	400			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_{E} = 500 \mu A, I_{C} = 0$	9			V
I _{CBO}	Collector Cut-off Current	V _{CB} = 700V, I _E = 0			10	μA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 9V, I_{C} = 0$			10	μA
h _{FE1} h _{FE2}	DC Current Gain *	$V_{CE} = 2V, I_{C} = 0.5A$ $V_{CE} = 2V, I_{C} = 1.0A$	8 5		21	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	$\begin{split} I_{C} &= 0.5A, I_{B} = 0.1A \\ I_{C} &= 1.0A, I_{B} = 0.25A \\ I_{C} &= 1.5A, I_{B} = 0.5A \end{split}$			0.5 1.0 3.0	V V V
V _{BE(sat)}	Base-Emitter Saturation Voltage	$I_{C} = 0.5A, I_{B} = 0.1A$ $I_{C} = 1.0A, I_{B} = 0.25A$			1.0 1.2	V V
f _T	Current Gain Bandwidth Product	$V_{CE} = 10V, I_{C} = 0.1A$	4			MHz
C _{ob}	Output Capacitance	V _{CB} = 10V, f = 0.1MHz		21		pF
t _{ON}	Turn On Time	$V_{CC} = 125V, I_C = 1A \\ I_{B1} = 0.2A, I_{B2} = -0.2A \\ R_L = 125\Omega$			1.1	μs
t _{STG}	Storge Time				4.0	μs
t _F	Fall Time				0.7	μs

Electrical Characteristics T_C = 25°C unless otherwise note

* Pulse Test: PW \leq 300 $\mu s,$ Duty Cycle \leq 2%

h_{FE} Classification

Classification	H1	H2
h _{FE1}	8 ~ 16	14 ~ 21



Typical Performance Characteristics

Figure 1. Static Characteristic

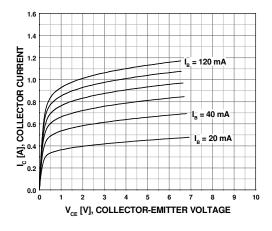


Figure 3. Collector-Emitter Saturation Voltage

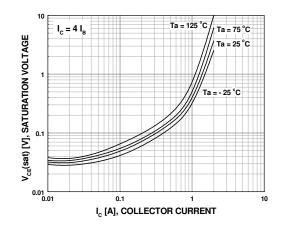
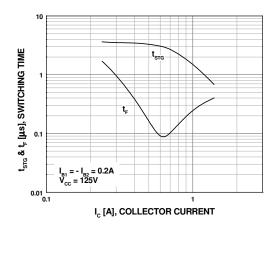
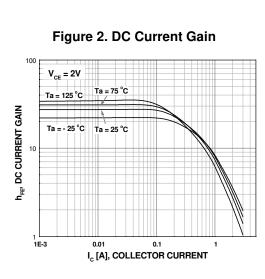


Figure 5. Resistive Load Switching Time







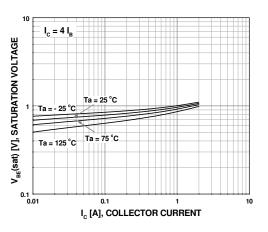
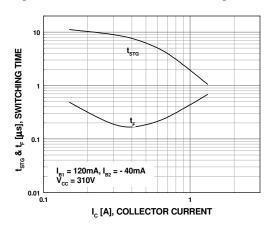
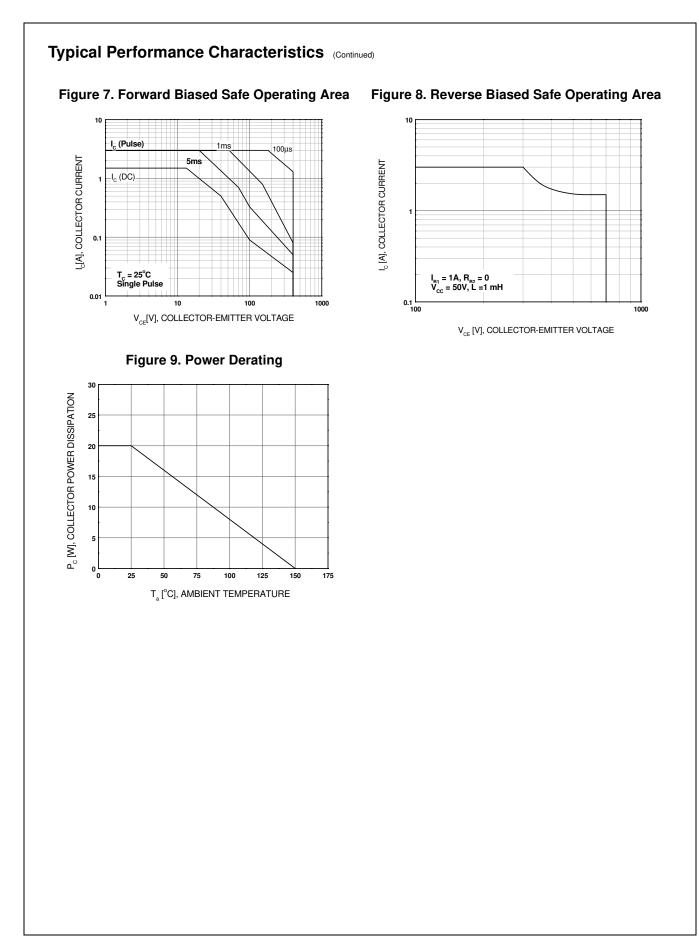
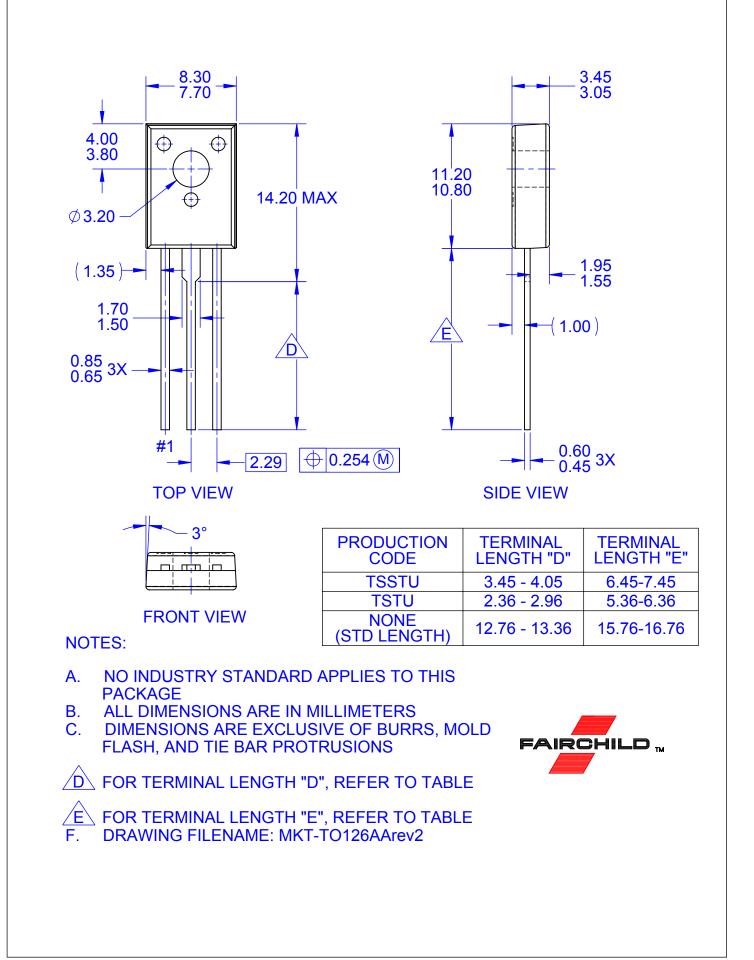


Figure 6. Resistive Load Switching Time







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