

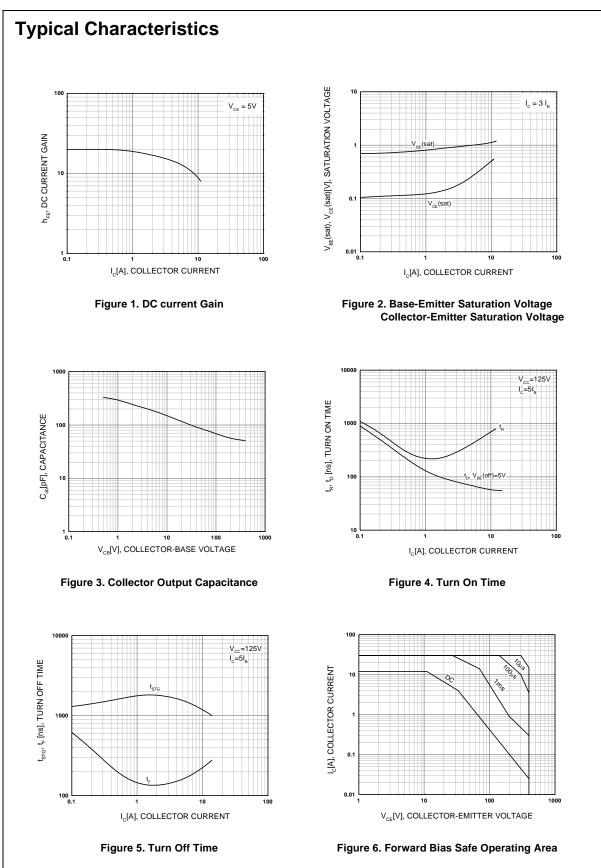
NPN Silicon Transistor

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
С	Collector Current (DC)	12	Α
I _{CP}	Collector Current (Pulse)	24	А
в	Base Current	6	A
Pc	Collector Dissipation (T _C =25°C)	130	W
Г _Ј	Junction Temperature	150	°C
Г _{STG}	Storage Temperature	- 65 ~ 150	°C

Electrical Characteristics Tc=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
V _{CEO} (sus)	Collector-Emitter Sustaining Voltage	$I_{\rm C} = 10 {\rm mA}, I_{\rm B} = 0$	400			V
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 7V, I_{C} = 0$			1	mA
h _{FE}	DC Current Gain	$V_{CE} = 5V, I_{C} = 5A$	8		40	
		$V_{CE} = 5V, I_{C} = 8A$	6		30	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5A, I _B = 1A			1	V
		I _C = 8A, I _B = 1.6A	1.1	-7	1.5	V
		$I_{\rm C} = 12$ A, $I_{\rm B} = 3$ A	5	37	3	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 5A, I _B = 1A			1.2	V
		I _C = 8A, I _B = 1.6A		14 m	1.6	V
Cob	Output Capacitance	$V_{CB} = 10V$, f = 0.1MHz		180		pF
f _T	Current Gain Bandwidth Product	$V_{CE} = 10V, I_{C} = 0.5A$	4			MHz
t _{ON}	Turn On Time	V _{CC} =125V, I _C = 8A			1.1	μs
t _{STG}	Storage Time	$I_{B1} = -I_{B2} = 1.6A$			3	μs
t _F	Fall Time	R _L = 15,6Ω			0.7	μs

* Pulse test: PW≤300μs, Duty cycle≤2% Pulse



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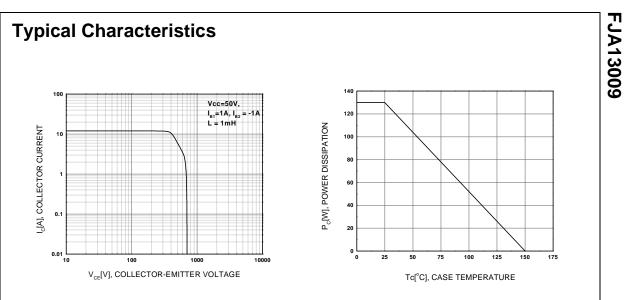
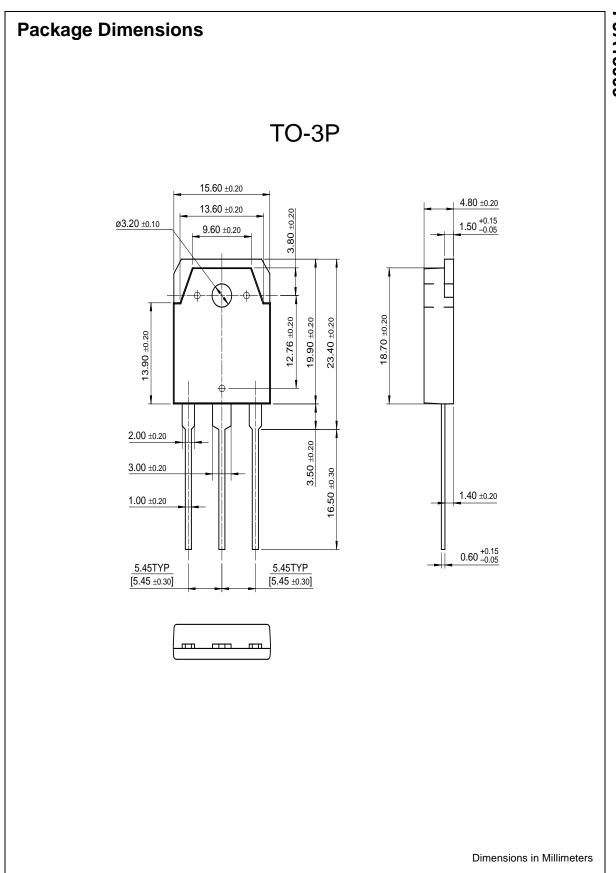


Figure 7. Reverse Bias Safe Operating Area

Figure 8. Power Derating



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