	CHILD INDUCTOR®	FJP910	0			
 Built-in Re Built-in Re 	Ditage Power Darlington T esistor at Base-Emitter : R ₁ (Typ.)=2000 esistor at Base : R _B (Typ.)=700 ± 100Ω ilicon Darlington Trar	2		TO-220 1.Base 2.Collector 3.Emitter		
Absolut	e Maximum Ratings T _{C=25}	°C unless other	wise noted	Equivalent Circuit C		
Symbol	Parameter	Value	Units	ې ۲		
V _{CBO}	Collector-Base Voltage	600	V			
V _{CEO}	Collector-Emitter Voltage	275	V			
V _{EBO}	Emitter-Base Voltage	10	V			
I _C	Collector Current (DC)	4	А			
I _{CP}	*Collector Current (Pulse)	6	А	R ₁		
IB	Base Current (DC)	0.5	А	$R_1 \cong 2000\Omega$		
P _C	Collector Dissipation (T _C =25°C)	40	W	$R_B \cong 700\Omega$ O E		

FJP9100 V

Storage Temperature T_{STG} * Pulse Test: PW=300µs, duty Cycle=2% Pulsed

Junction Temperature

TJ

Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

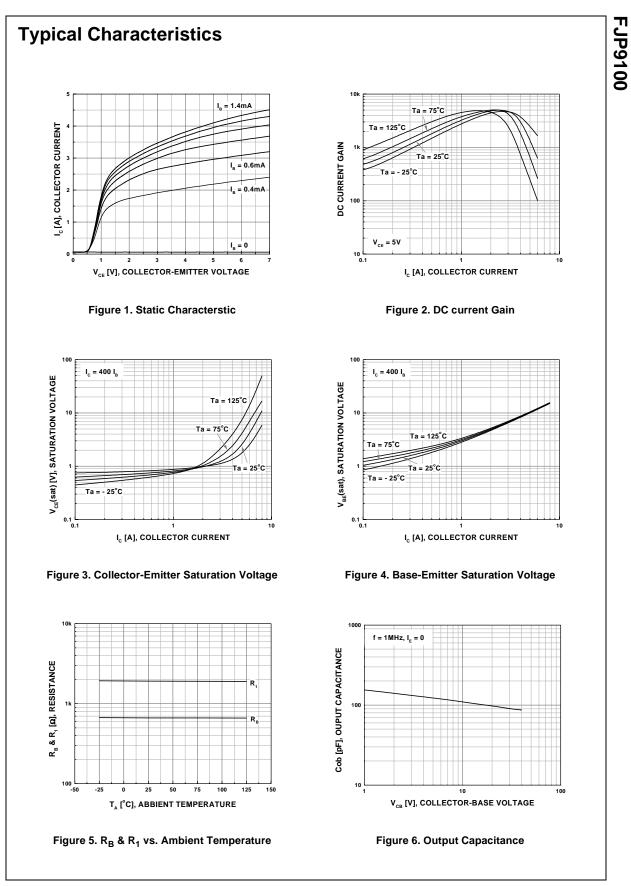
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{\rm C} = 500 \mu {\rm A}, \ I_{\rm E} = 0$	600			V
BV _{CER}	Collector-Emitter Breakdown Voltage	$I_{C} = 1$ mA, $R_{BE} = 330\Omega$	600			V
BV _{CEO} (sus)	Collector-Emitter Sustaining Voltage	I _C = 1.5A, I _B = 50mA, L=25mH	275			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_{\rm E} = 500 \mu A, \ I_{\rm C} = 0$	10			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = 600 V, I_E = 0$			0.1	mA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 10V, I_{C} = 0$			0.1	mA
h _{FE}	DC Current Gain	$V_{CE} = 5V, I_C = 0.5A$ $V_{CE} = 5V, I_C = 3A$	1000 1000		5000	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2A, I _B = 5mA			1.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 2A, I _B = 5mA			6.0	V
C _{ob}	Output Capacitance	$V_{CB} = 10V, I_E = 0, f=1MHz$		110		pF

150

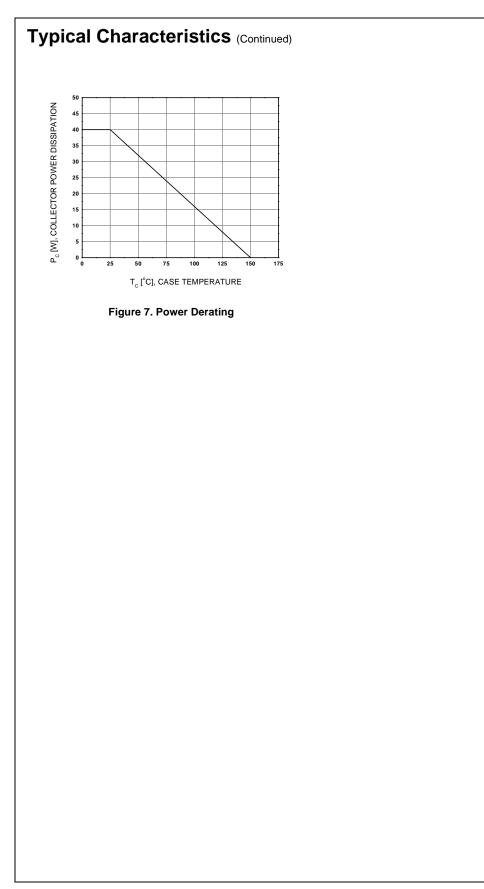
- 55 ~ 150

°C

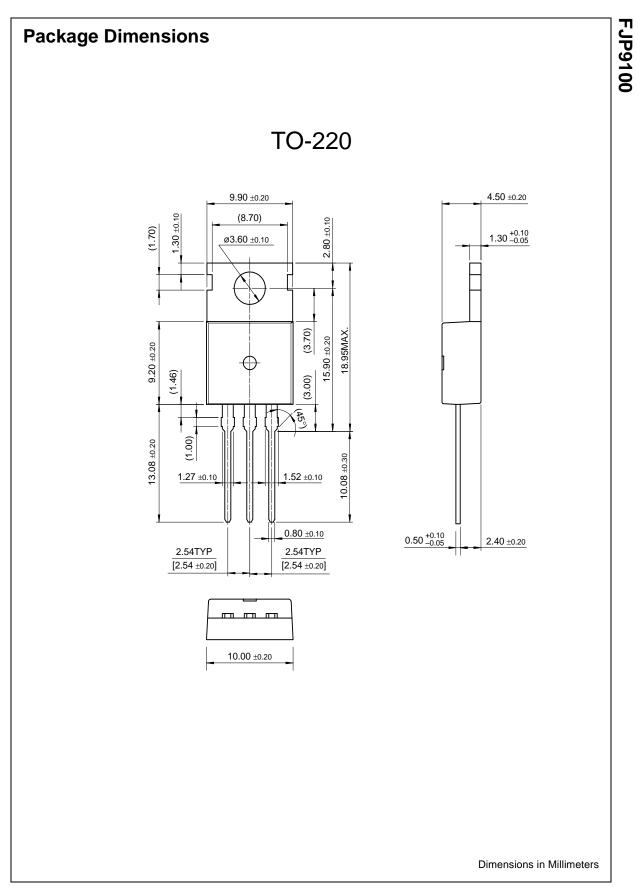
°C



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Definition of Terms

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