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

FJP9100 V

Storage Temperature T<sub>STG</sub> \* Pulse Test: PW=300µs, duty Cycle=2% Pulsed

Junction Temperature

TJ

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

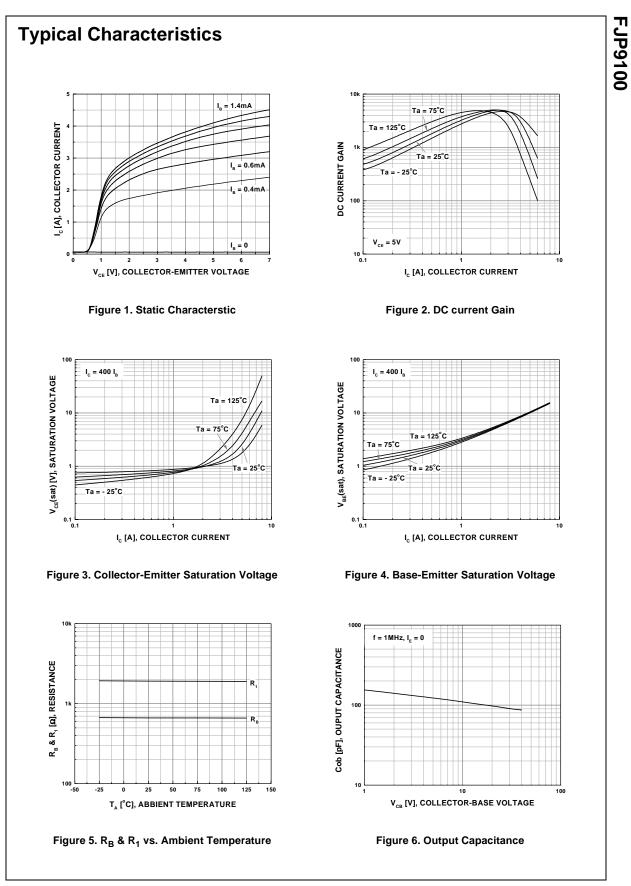
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	$I_{\rm C} = 500 \mu {\rm A}, \ I_{\rm E} = 0$	600			V
BV <sub>CER</sub>	Collector-Emitter Breakdown Voltage	$I_{C} = 1$ mA, $R_{BE} = 330\Omega$	600			V
BV <sub>CEO</sub> (sus)	Collector-Emitter Sustaining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

150

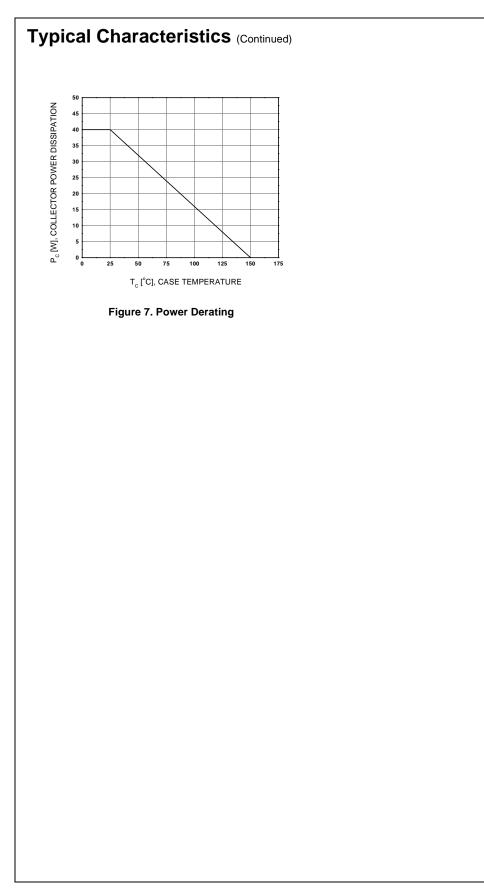
- 55 ~ 150

°C

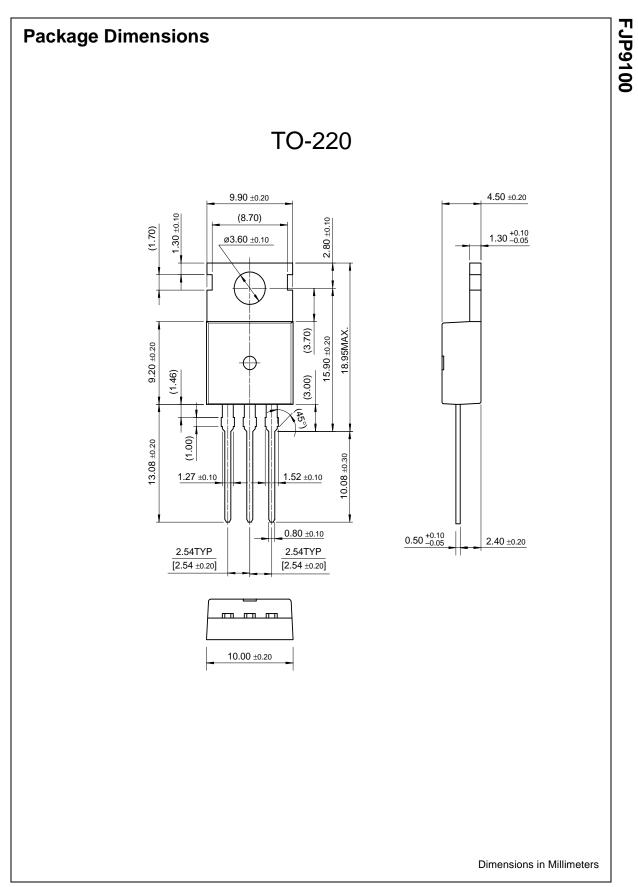
°C



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