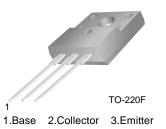
FAIRCHILD

SEMICONDUCTOR®

FJPF5555

High Voltage Switch Mode Application

- Fast Speed Switching
- Wide Safe Operating Area
- Suitable for Electronic Ballast Application



NPN Silicon Transistor

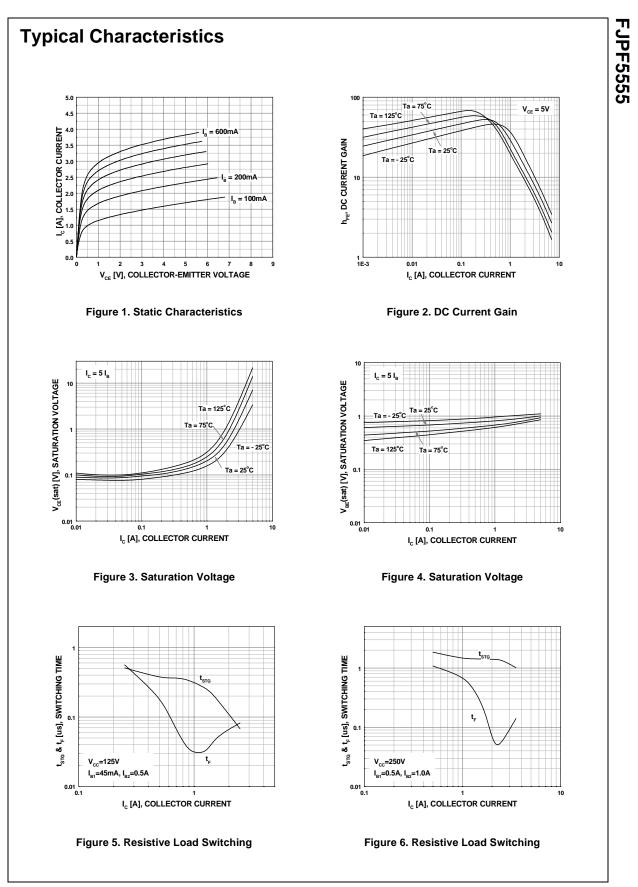
Absolute Maximum Ratings $T_{C}=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	1050	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	14	V
I _C	Collector Current (DC)	5	Α
I _{CP}	Collector Current (Pulse)	10	Α
P _C	Collector Dissipation	40	W
Tj	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

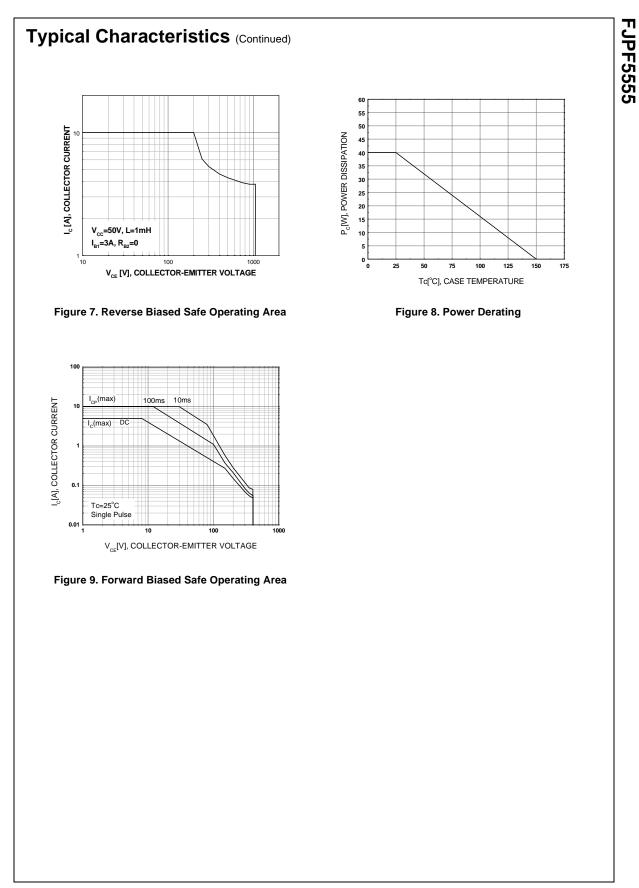
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =500μA, I _E =0	1050			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =5mA, I _B =0	400			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =500μA, I _C =0	14			V
h _{FE}	* DC Current Gain	V _{CE} =5V, I _C =10mA	10			
		V _{CE} =3V, I _C =0.8A	20		40	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =1A, I _B =0.2A			0.5	V
		I _C =3.5A, I _B =1.0A			1.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =3.5A, I _B =1.0A			1.2	V
C _{ob}	Output Capacitance	V _{CB} =10V, f=1MHz		45		pF
t _{ON}	Turn On Time	V _{CC} =125V, I _C =0.5A			1.0	μs
t _{STG}	Storage Time	I _{B1} =45mA, I _{B2} =0.5A			1.2	μs
t _F	Fall Time	R _L =250Ω			0.3	μs
t _{ON}	Turn On Time	V _{CC} =250V, I _C =2.5A			2.0	μs
t _{STG}	Storage Time	I _{B1} =0.5A, I _{B2} =1.0A			2.5	μs
t _F	Fall Time	R _L =100Ω			0.3	μs

* Pulse test: PW≤300µs, Duty Cycle≤2%

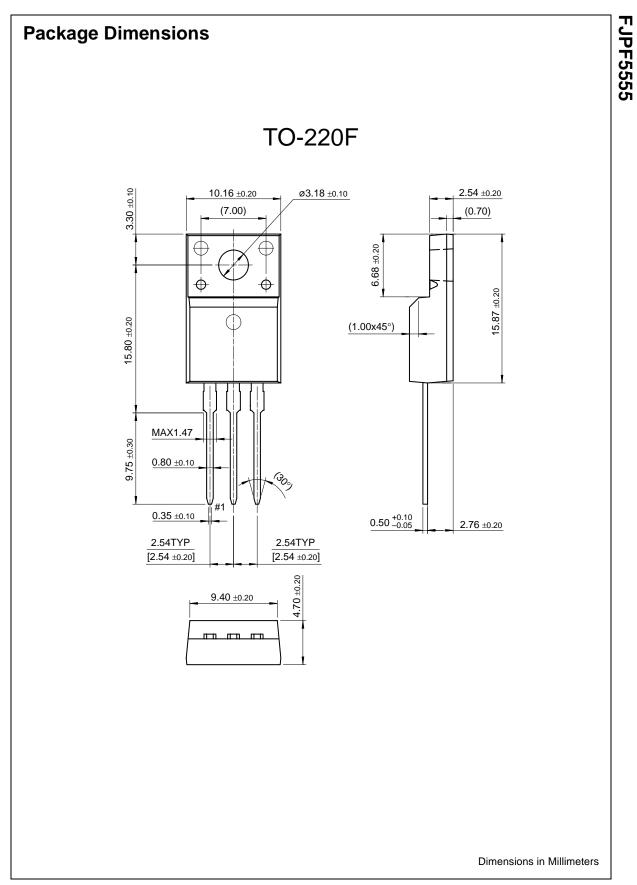


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The Power Franchise [®]		PACMAN™	SPM™	
Programmable Activ		POP™	Stealth™	

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