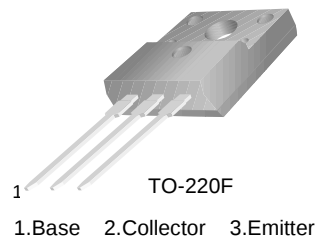


FJPF9020

FJPF9020

Monolithic Construction With Built In Base-Emitter Shunt Resistors

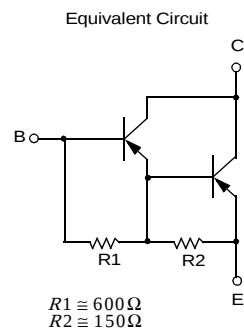
- High Collector-Base Breakdown Voltage : $BV_{CBO} = -550V$
- High DC Current Gain : $h_{FE} = 550$ @ $V_{CE} = -4V$, $I_C = -1A$ (Typ.)
- Industrial Use



PNP Epitaxial Darlington Transistor

Absolute Maximum Ratings $T_C = 25^\circ C$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	- 550	V
V_{CEO}	Collector-Emitter Voltage	- 550	V
V_{EBO}	Emitter-Base Voltage	- 6	V
I_C	Collector Current (DC)	- 2	A
I_{CP}	Collector Current (Pulse)	- 4	A
P_C	Collector Dissipation ($T_C = 25^\circ C$)	15	W
T_J	Junction Temperature	150	$^\circ C$
T_{STG}	Storage Temperature	- 55 ~ 150	$^\circ C$



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

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	$I_C = -100\mu A$, $I_E = 0$	- 550			V
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -500\mu A$, $I_B = 0$	- 550			V
BV_{EBO}	Emitter-Base Breakdown Voltage	$I_E = -200mA$, $I_C = 0$	-6			V
I_{CBO}	Collector Cut-off Current	$V_{CE} = -550V$, $I_E = 0$			-100	μA
I_{EBO}	Emitter Cut-off Current	$V_{EB} = -6V$, $I_C = 0$		-10	-20	mA
h_{FE}	DC Current Gain	$V_{CE} = -4V$, $I_C = -1A$	400	550	700	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -1A$, $I_B = -20mA$		-1.0	- 1.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -1A$, $I_B = -20mA$		-1.5	- 2.0	V

Typical Characteristics

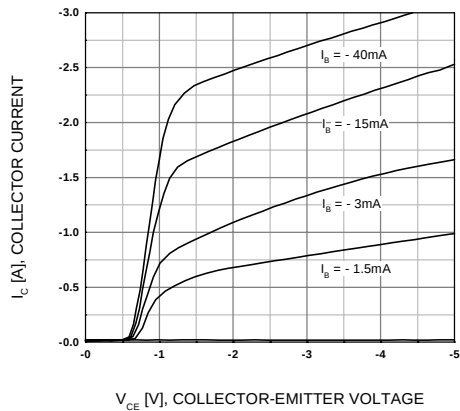


Figure 1. Static Characteristic

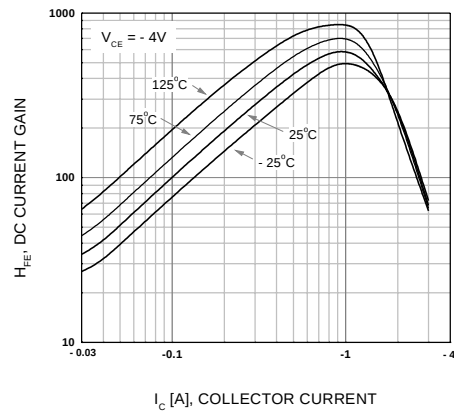


Figure 2. DC current Gain

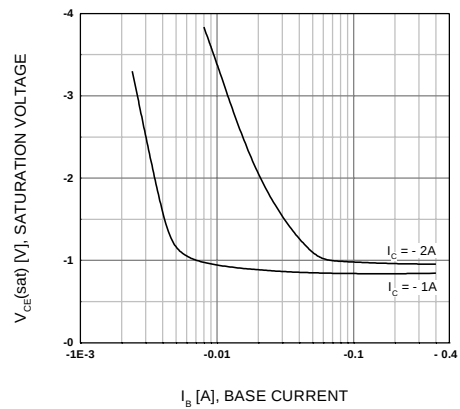


Figure 3. $V_{ce(sat)}$ vs. I_b Characteristics

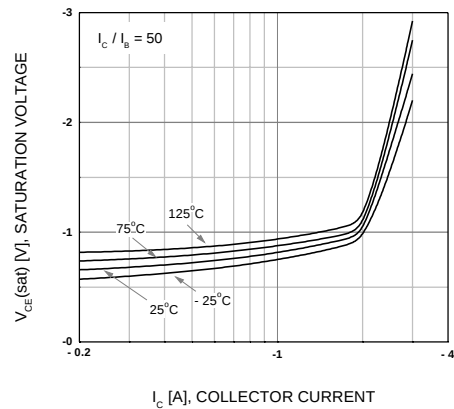


Figure 4. Collector-Emitter Saturation Voltage

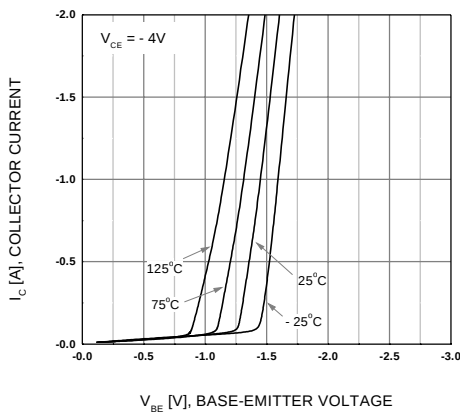


Figure 5. Base-Emitter On Voltage

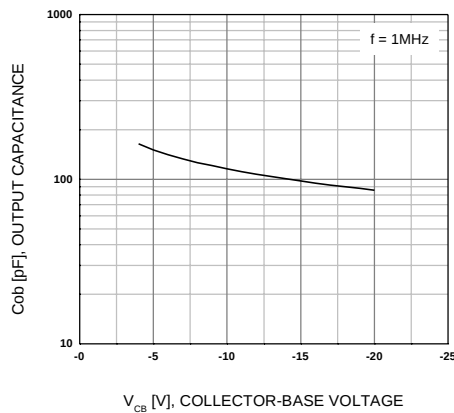


Figure 6. Output Capacitance

Typical Characteristics (Continued)

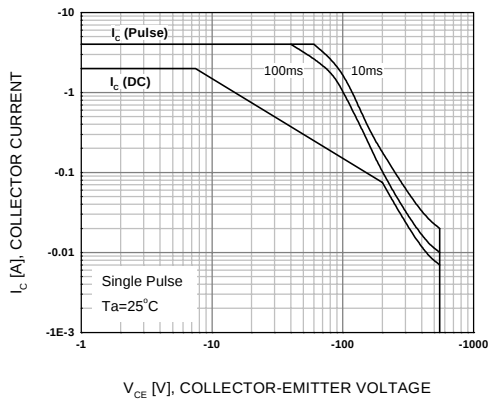


Figure 7. Forward Bias Safe Operating Area

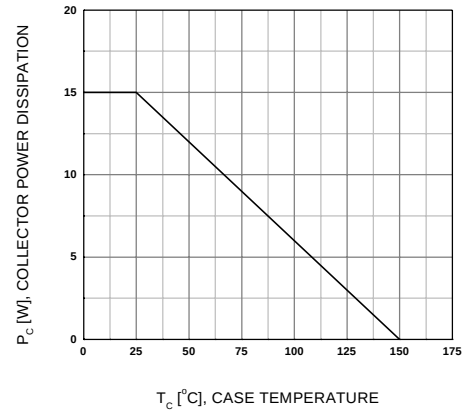
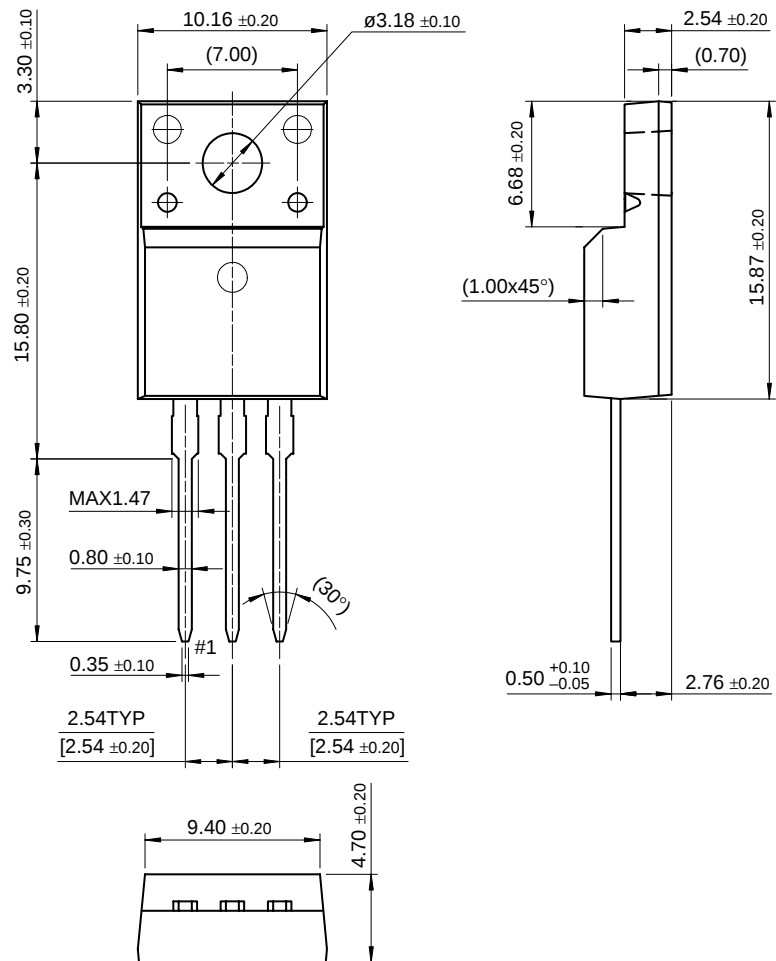


Figure 8. Power Derating

Package Dimensions

FJPF9020

TO-220F



Dimensions in Millimeters

TRADEMARKS

The following are registered and unregistered trademarks Fairchild Semiconductor owns or is authorized to use and is not intended to be an exhaustive list of all such trademarks.

ACE ^x TM	FAST ^r TM	OPTOLOGIC [®]	SMART START TM	VCX TM
Bottomless TM	FRFET TM	OPTOPLANAR TM	SPM TM	
CoolFET TM	GlobalOptoisolator TM	PACMAN TM	Stealth TM	
CROSSVOLT TM	GTO TM	POP TM	SuperSOT TM -3	
DOVE TM	HiSeC TM	Power247 TM	SuperSOT TM -6	
EcoSPARK TM	I ² C TM	PowerTrench [®]	SuperSOT TM -8	
E ² CMOS TM	ISOPPLANAR TM	QFET TM	SyncFET TM	
EnSigna TM	LittleFET TM	QS TM	TinyLogic TM	
FACT TM	MicroFET TM	QT Optoelectronics TM	TruTranslation TM	
FACT Quiet series TM	MicroPak TM	Quiet Series TM	UHC TM	
FAST [®]	MICROWIRE TM	SLIENT SWITCHER [®]	UltraFET [®]	

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION.

As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, or (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.
2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru