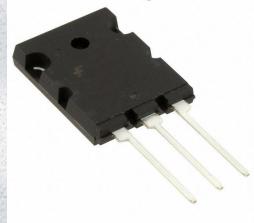


FJL6920YDTU Datasheet

Manufa

www.digi-electronics.com



DiGi Electronics Part Number	FJL6920YDTU-DG
Manufacturer	onsemi
Manufacturer Product Number	FJL6920YDTU
Description	TRANS NPN 800V 20A TO264-3
Detailed Description	Bipolar (BJT) Transistor NPN 800 V 20 A 200 W Thro ugh Hole TO-264-3

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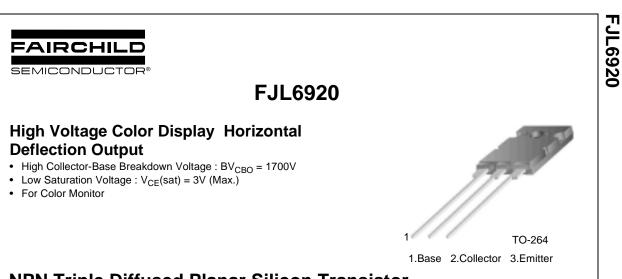


Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
FJL6920YDTU	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
NPN	20 A
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
800 V	3V @ 2.75A, 11A
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:
1mA	5.5 @ 11A, 5V
Power - Max:	Frequency - Transition:
200 W	
Operating Temperature:	Mounting Type:
150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-264-3, TO-264AA	TO-264-3
Base Product Number:	
FJL692	

Environmental & Export classification

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected
ECCN:	HTSUS:
EAR99	8541.29.0095



NPN Triple Diffused Planar Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Rating	Units
V _{CBO}	Collector-Base Voltage	1700	V
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current (DC)	20	A
	Collector Current (Pulse)	30	A
I _{CP} * P _C	Collector Dissipation	200	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

* Pulse Test: PW=300µs, duty Cycle=2% Pulsed

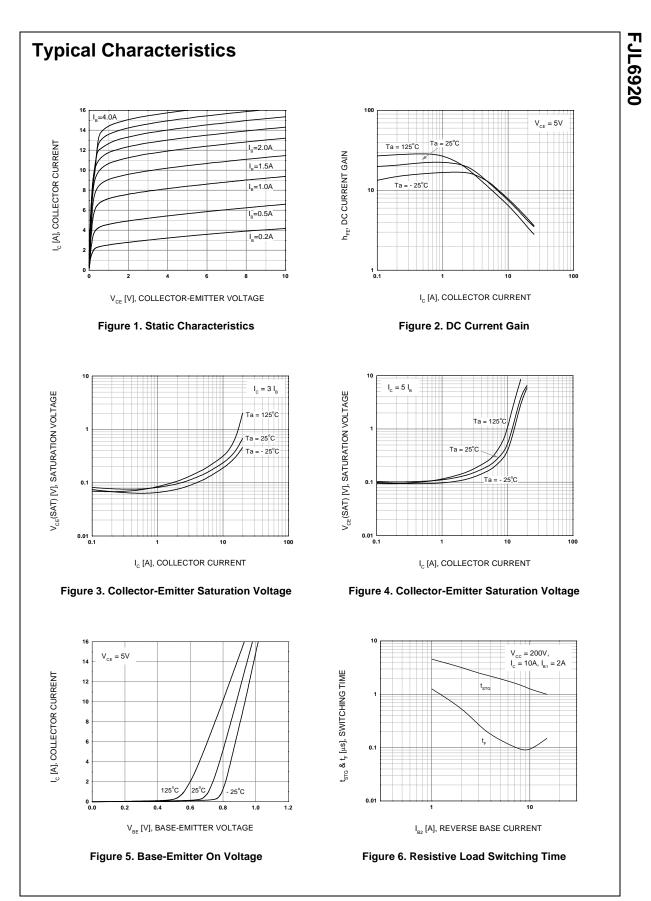
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Units
I _{CES}	Collector Cut-off Current	V _{CB} =1400V, R _{BE} =0			1	mA
I _{CBO}	Collector Cut-off Current	V _{CB} =800V, I _E =0			10	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} =4V, I _C =0			1	mA
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =500μA, I _E =0	1700			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =5mA, I _B =0	800			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =500μA, I _C =0	6			V
h _{FE1} h _{FE2}	DC Current Gain	V _{CE} =5V, I _C =1A V _{CE} =5V, I _C =11A	8 5.5		8.5	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =11A, I _B =2.75A			3	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =11A, I _B =2.75A			1.5	V
t _{STG} *	Storage Time	V_{CC} =200V, I _C =10A, R _L =20 Ω			3	μs
t _F *	Fall Time	I _{B1} =2.0A, I _{B2} = - 4.0A		0.15	0.2	μs

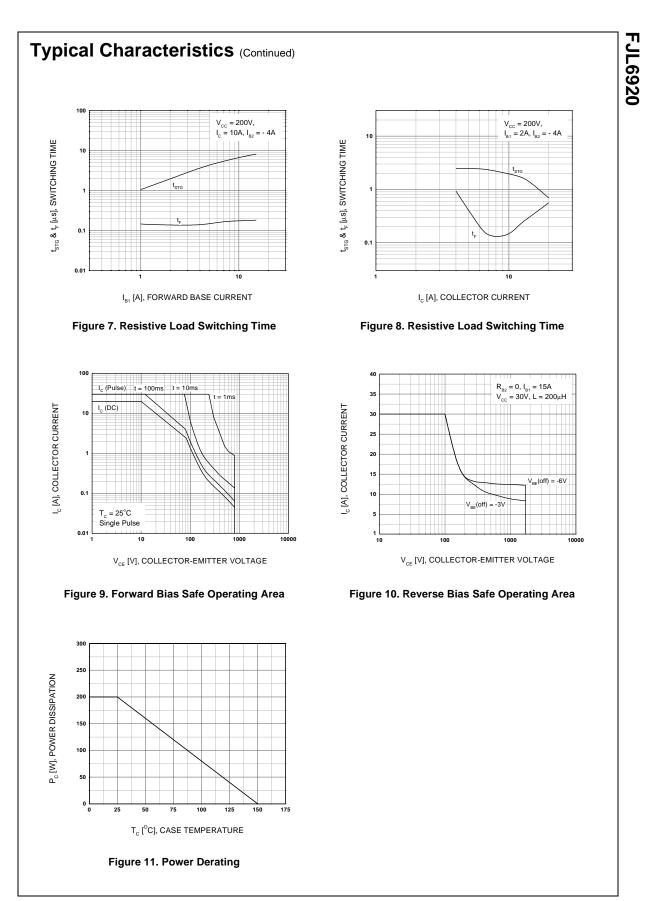
* Pulse Test: PW=20µs, duty Cycle=1% Pulsed

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

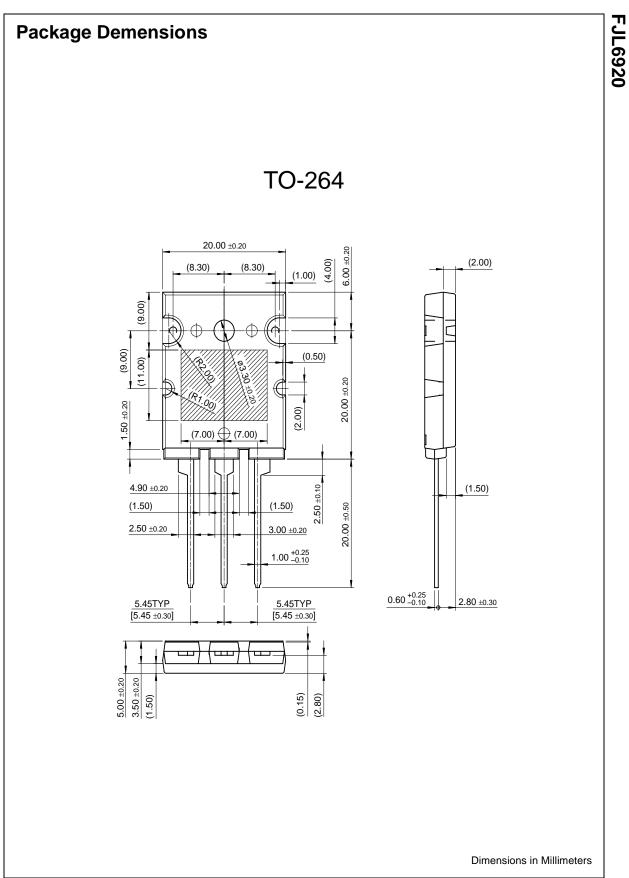
Symbol	Parameter	Тур	Max	Units
$R_{\theta jC}$	Thermal Resistance, Junction to Case		0.625	°C/W



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DenseTrench™	GTO™	QFET™	TinyLogic™
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EcoSPARK™	ISOPLANAR™	QT Optoelectronics [™]	UltraFET [®]
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EnSigna™	MicroFET™	SLIENT SWITCHER [®]	
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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.

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Definition of Terms

Datasheet Identification	Product Status	Definition
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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.



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