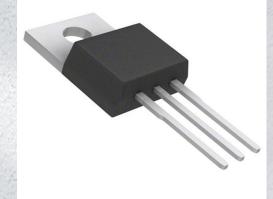


KSD2880TU Datasheet

www.digi-electronics.com



Manufacturer onsemi	
Manufacturer Product Number KSD2880TU	
Description TRANS NPN 55V 3A TO220-3	
Detailed Description Bipolar (BJT) Transistor NPN 55 V 3 A 25 W Throw Hole TO-220-3	Jh

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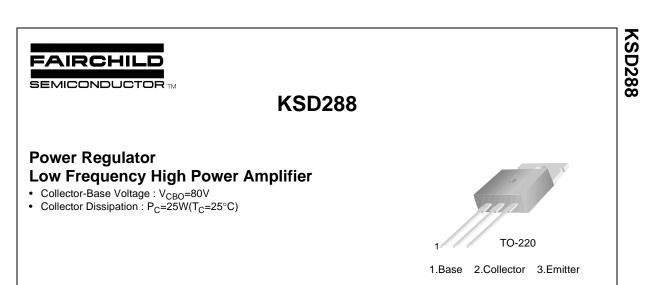


Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
KSD2880TU	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
NPN	3 A
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
55 V	1V @ 100mA, 1A
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:
50µA (ICBO)	70 @ 500mA, 5V
Power - Max:	Frequency - Transition:
25 W	
Operating Temperature:	Mounting Type:
150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-220-3	TO-220-3
Base Product Number:	
KSD288	

Environmental & Export classification

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



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

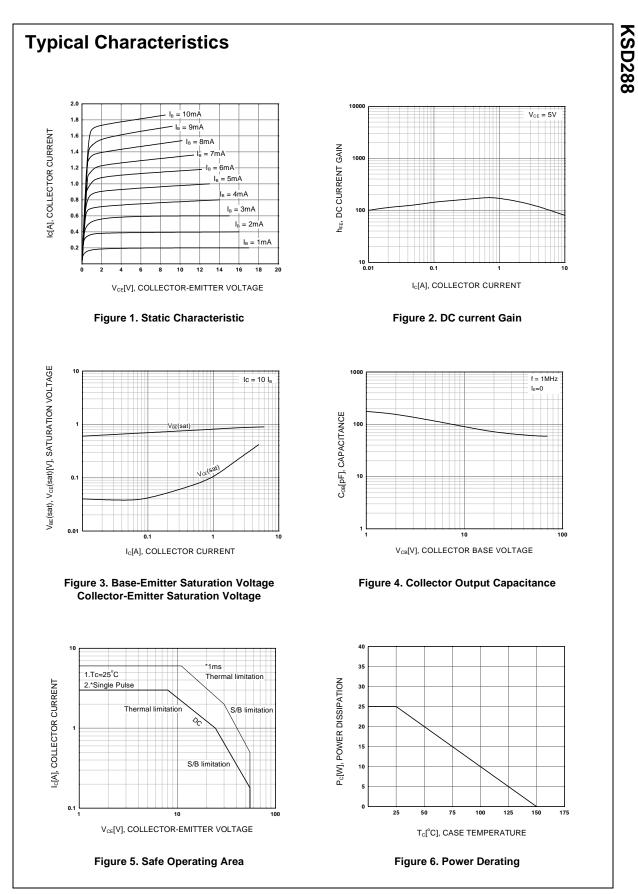
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	55	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	3	A
P _C	Collector Dissipation (T _C =25°C)	25	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

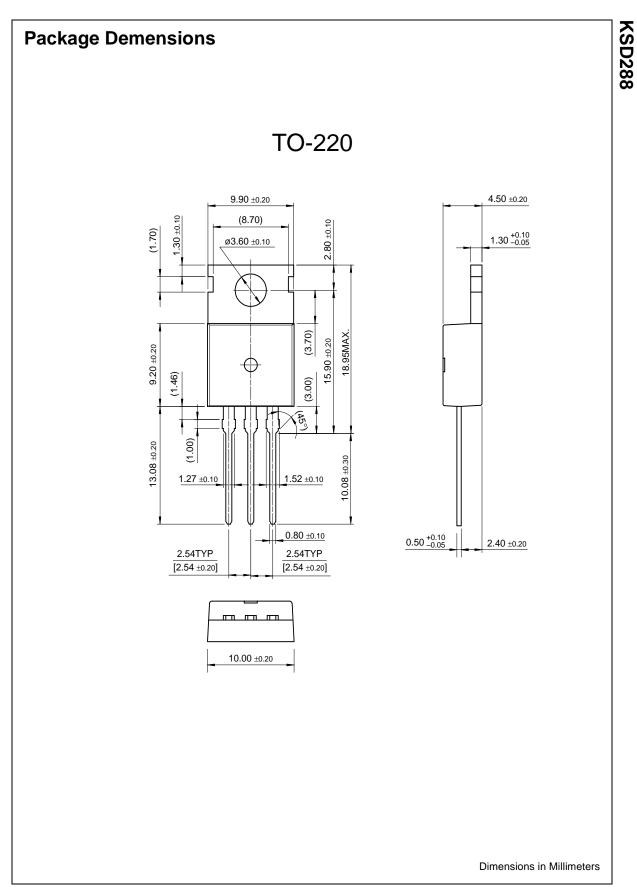
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =500μA, I _E =0	80			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA,I _B =0	55			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =500μA, I _C =0	5			V
I _{CBO}	Collector Cut-off Current	V _{CB} =50V,I _E =0			50	μΑ
h _{FE}	DC Current Gain	V _{CE} =5V,I _C =0.5A	40		240	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =1A, I _B =0.1A			1	V

h_{FE} Classification

Classification	R	0	Y
h _{FE}	40 ~ 80	70 ~ 140	120 ~ 240



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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.

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.



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