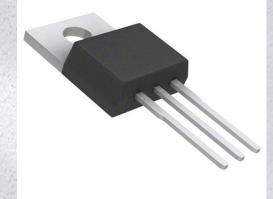


KSD363OTU Datasheet

www.digi-electronics.com



DiGi Electronics Part Number	KSD3630TU-DG
Manufacturer	onsemi
Manufacturer Product Number	KSD363OTU
Description	TRANS NPN 120V 6A TO220-3
Detailed Description	Bipolar (BJT) Transistor NPN 120 V 6 A 10MHz 40 W Through Hole TO-220-3

https://www.DiGi-Electronics.com



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:	
KSD363OTU	onsemi	
Series:	Product Status:	
-	Obsolete	
Transistor Type:	Current - Collector (Ic) (Max):	
NPN	6 A	
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:	
120 V	1V @ 100mA, 1A	
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:	
1mA (ICBO)	70 @ 1A, 5V	
Power - Max:	Frequency - Transition:	
40 W	10MHz	
Operating Temperature:	Mounting Type:	
150°C (TJ)	Through Hole	
Package / Case:	Supplier Device Package:	
TO-220-3	TO-220-3	
Base Product Number:		
KSD363		

Environmental & Export classification

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



Is Now Part of

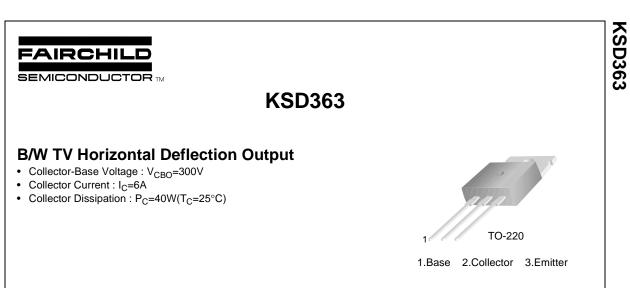


ON Semiconductor®

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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

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NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

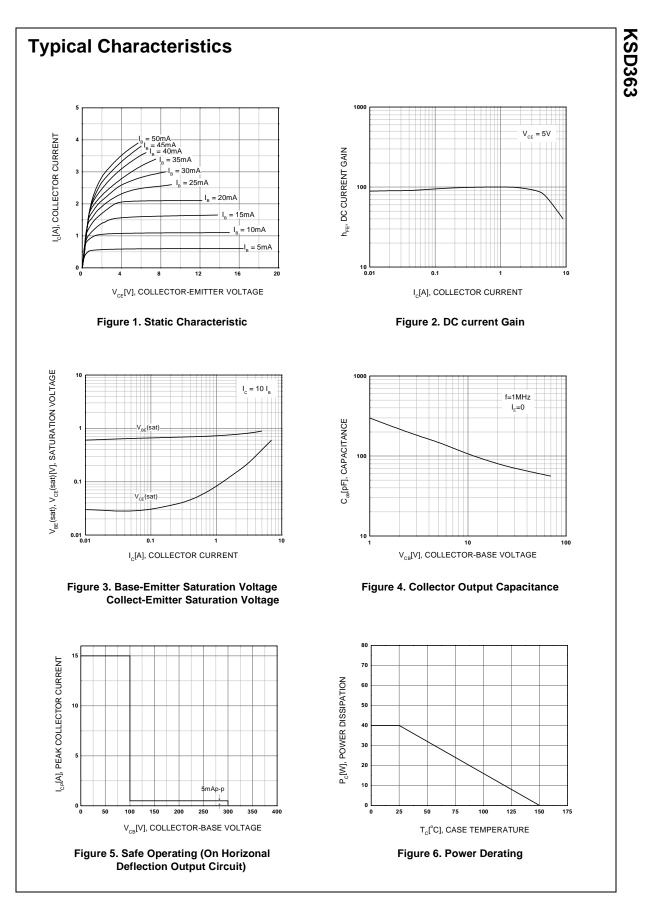
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	120	V
V _{EBO}	Emitter-Base Voltage	8	V
I _C	Collector Current	6	A
P _C Collector Dissipation (T _C =25°C)		40	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

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

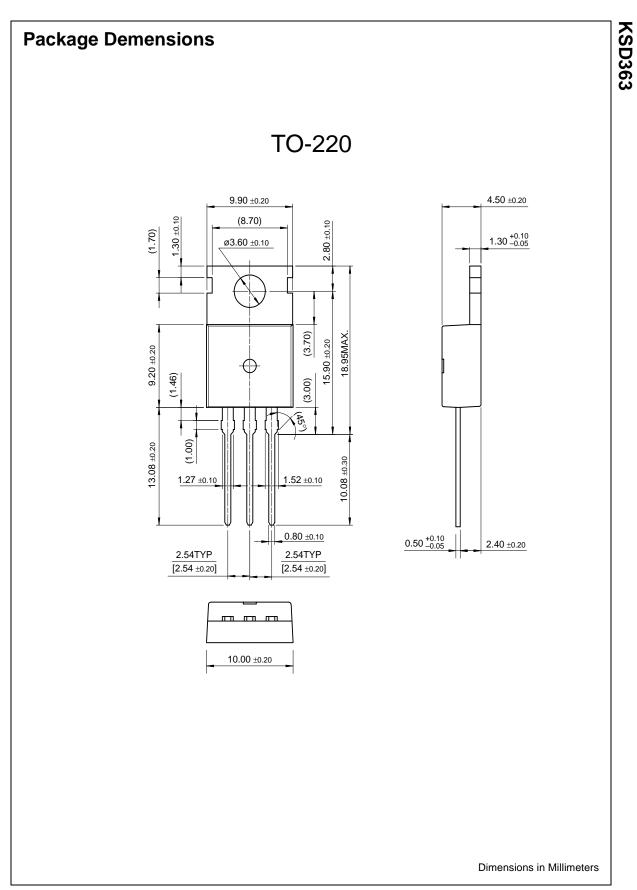
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =1mA, I _E = 0	300			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_{\rm C} = 20 {\rm mA}, I_{\rm B} = 0$	120			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_{\rm E} = 1$ mA, $I_{\rm C} = 0$	8			V
I _{CBO}	Collector Cut-off Current	V _{CB} = 250V, I _E = 0			1	mA
h _{FE}	DC Current Gain	$V_{CE} = 5V, I_{C} = 1A$	40		240	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_{\rm C} = 1$ A, $I_{\rm B} = 0.1$ A			1	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 1A, I _B = 0.1A			1.5	V
f _T	Current Gain Bandwidth Product	$V_{CE} = 5V, I_{C} = 0.5A$		10		MHz

h_{FE} Classification

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



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Definition of Terms

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