

KSC2785YTA Datasheet



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DiGi Electronics Part Number KSC2785YTA-DG

Manufacturer onsemi

Manufacturer Product Number KSC2785YTA

Description TRANS NPN 50V 0.15A TO92S

Detailed Description Bipolar (BJT) Transistor NPN 50 V 150 mA 300MHz 2

50 mW Through Hole TO-92S



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KSC2785

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
KSC2785YTA	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
NPN	150 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
50 V	300mV @ 10mA, 100mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:
100nA (ICBO)	120 @ 1mA, 6V
Power - Max:	Frequency - Transition:
250 mW	300MHz
Operating Temperature:	Mounting Type:
150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-226-3, TO-92-3 Short Body	TO-92S
Base Product Number:	

Environmental & Export classification

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected
ECCN:	HTSUS:
EAR99	8541.21.0075



KSC2785

Audio Frequency Amplifier & High Frequency OSC.

- Complement to KSA1175
- Collector-Base Voltage : V_{CBO}=60V



1.Emitter 2. Collector 3. Base

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a =25°C unless otherwise noted

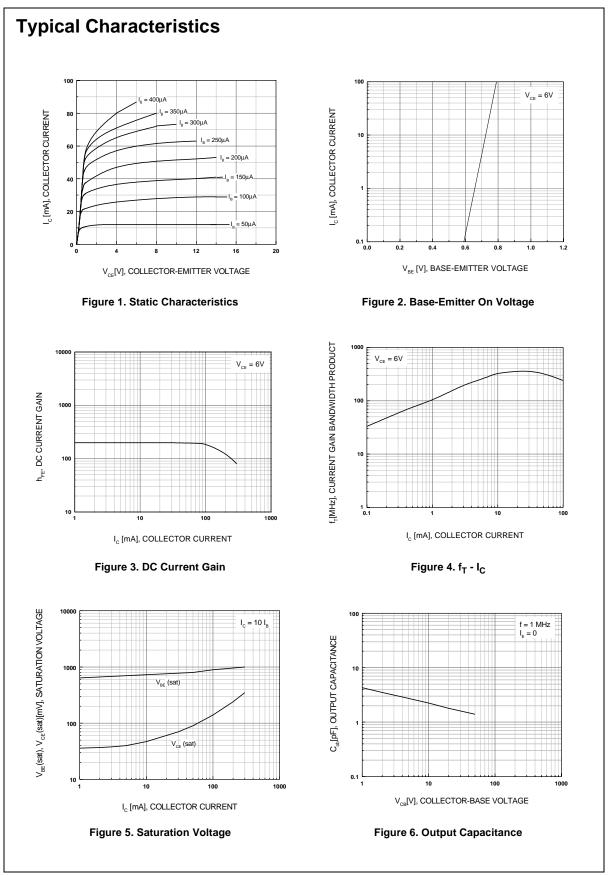
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}			V
I _C	Collector Current	150	mA
P _C	Collector Power Dissipation	250	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics T_a =25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =100μA, I _E =0	60			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA, I _B =0	50			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =10μA, I _C =0	5			V
I _{CBO}	Collector Cut-off Current	V_{CB} =40V, I_E =0			0.1	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB}=3V$, $I_{C}=0$			0.1	μΑ
h _{FE}	DC Current Gain	V _{CE} =6V, I _C =1.0mA	70		700	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =100mA, I _B =10mA		0.15	0.3	V
f _T	Current Gain Bandwidth Product	V _{CE} =6V, I _C =10mA		300		MHz
C _{ob}	Output Capacitance	V _{CB} =6V, I _E =0, f=1MHz		2.5		pF
NF	Noise Figure	V_{CE} =6, I_{C} =0.5mA f=1KHz, R_{S} =500 Ω		4.0		dB

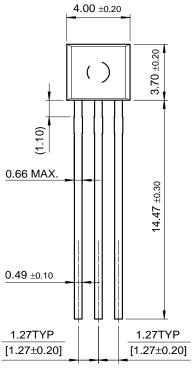
h_{FE} Classification

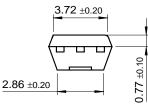
Classification	0	Υ	G	L
h _{FE}	70 ~ 140	120 ~ 240	200 ~ 400	350 ~ 700

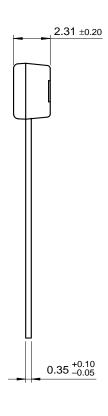


Package Dimensions

TO-92S







Dimensions in Millimeters

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CoolFET™	FASTr™	MicroFET™	PowerTrench [®]	SuperSOT™-6
CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
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EcoSPARK™	GTO™	MSX™	QT Optoelectronics™	TinyLogic™
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Across the board	. Around the world.™	OCXPro™	RapidConnect™	UltraFET [®]
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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.
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