FAIRCHILD

SEMICONDUCTOR

KSC2787

FM/AM RF AMP, MIX, CONV, OSC, IF

- Collector-Emitter Voltage : V_{CEO}=30V
 High Current Gain Bandwidth Product : f_T=300MHz (TYP)
- Low Output Capacitance : Cob=2.0pF (TYP)



1.Emitter 2. Collector 3. Base

Units V V V

mΑ

mW

°C

°C

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a=25$ °C unless otherwise noted				
Symbol	nbol Parameter			
V _{CBO}	Collector-Base Voltage	50		
V _{CEO}	Collector-Emitter Voltage 30			
V _{EBO}	Emitter-Base Voltage 5			

Collector Current 50 I_{C} **Collector Power Dissipation** 250 P_{C} ТJ **Junction Temperature** 150 -55 ~ 150 $\mathsf{T}_{\mathsf{STG}}$ Storage Temperature

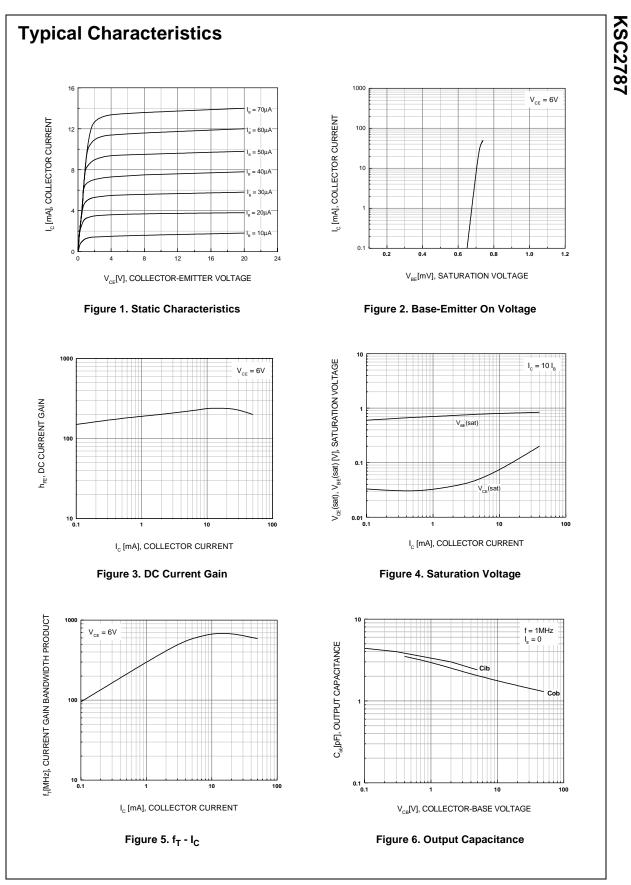
Electrical Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =10μΑ, I _E =0	50			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =5mA, I _B =0	30			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =10μΑ, I _C =0	5			V
I _{CBO}	Collector Cut-off Current	V _{CB} =50V, I _E =0			0.1	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} =5V, I _C =0			0.1	μΑ
h _{FE}	DC Current Gain	V _{CE} =6V, I _C =1mA	40		240	
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} =6V, I _C =1mA		0.67	0.75	V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =10mA, I _B =1mA		0.08	0.3	V
f _T	Current Gain Bandwidth Product	V _{CE} =6V, I _C =1mA	150	300		MHz
C _{ob}	Output Capacitance	V _{CB} =6V, I _E =0, f=1MHz		2.0	2.5	pF

h_{FE} Classification

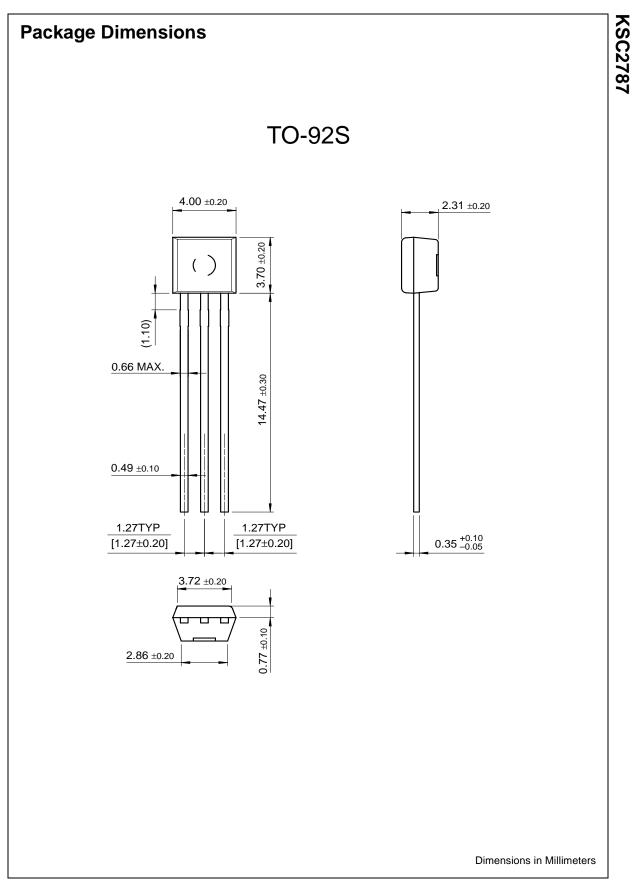
Classification	R	0	Y
h _{FE}	40 ~ 80	70 ~ 140	120 ~ 240

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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