

SEMICONDUCTOR®

KSC2330

Color TV Chroma Output

- Collector-Base Voltage : V_{CBO}=300V
 Current Gain Bandwidth Product : f_T=50MHz (TYP.)



NPN Epitaxial Silicon Transistor

Absolute Maximum	Ratings $T_a=25^{\circ}C$ unless otherwise noted
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Symbol Parameter		Ratings	Units	
V _{CBO}	Collector-Base Voltage	300	V	
V _{CEO}	Collector-Emitter Voltage	300	V	
V _{EBO}	Emitter-Base Voltage	7	V	
c	Collector Current	100	mA	
P _C	Collector Power Dissipation	1	W	
ТJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ +150	°C	

Electrical Characteristics $T_a=25^{\circ}C$ unless otherwise notd

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =100μA, I _E =0	300			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =5mA, I _B =0	300			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =100μA, I _C =0	7			V
I _{CBO}	Collector Cut-off Current	V _{CB} =200V, I _E =0			0.1	μA
h _{FE}	DC Current Gain	V _{CE} =10V, I _C =20mA	40		240	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =10mA, I _B =1mA			0.5	V
f _T	Current Gain Bandwidth Product	V _{CE} =30V, I _C =10mA		50		MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz		4		pF

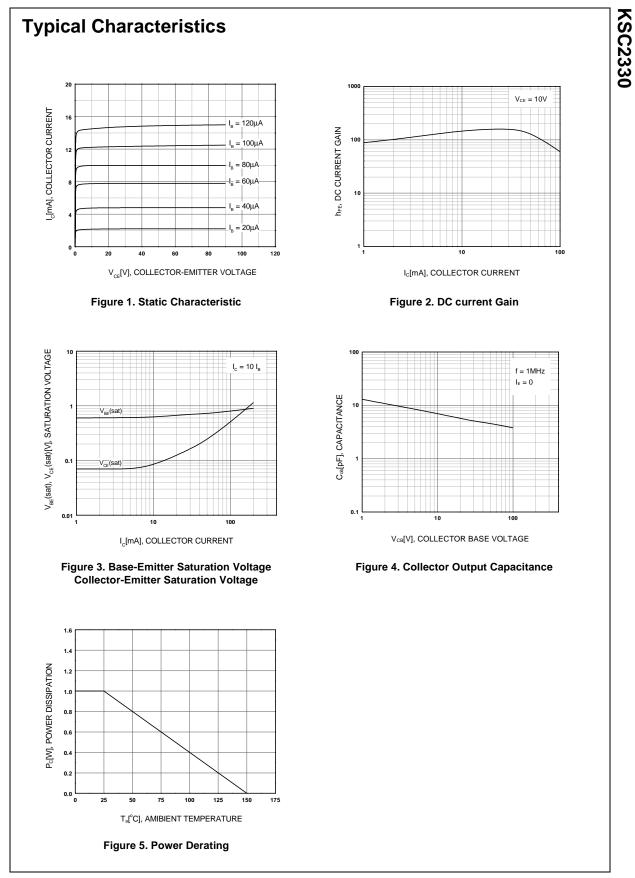
h_{FE} Classification

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

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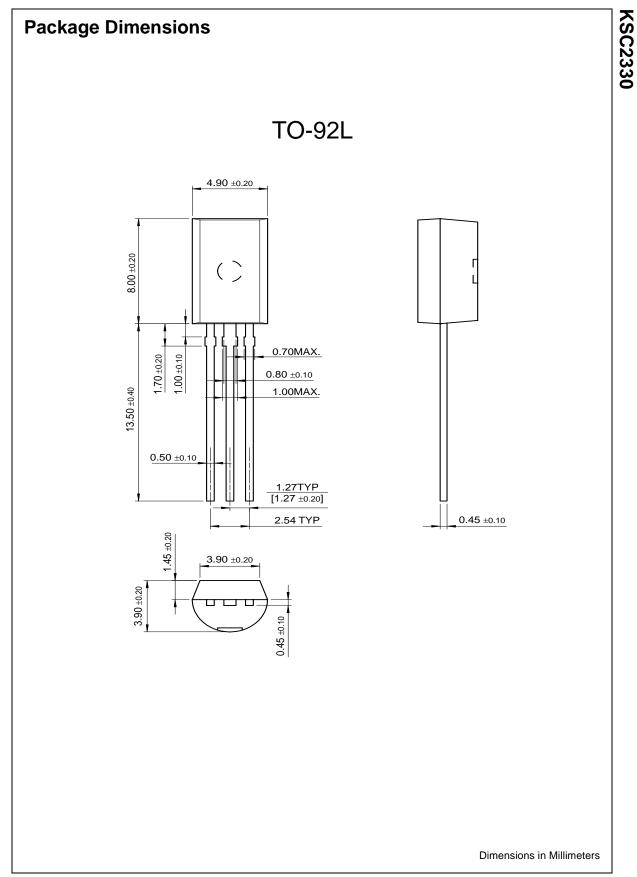
Rev. A2, September 2002

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