FAIRCHILD

SEMICONDUCTOR®

KSC2383

Color TV Audio Output & Color TV Vertical **Deflection Output**



1. Emitter 2. Collector 3. Base

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	160	V
V _{CEO}	Collector-Emitter Voltage	160	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current	1	A
I _B	Base Current	0.5	A
P _C	Collector Power Dissipation	900	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

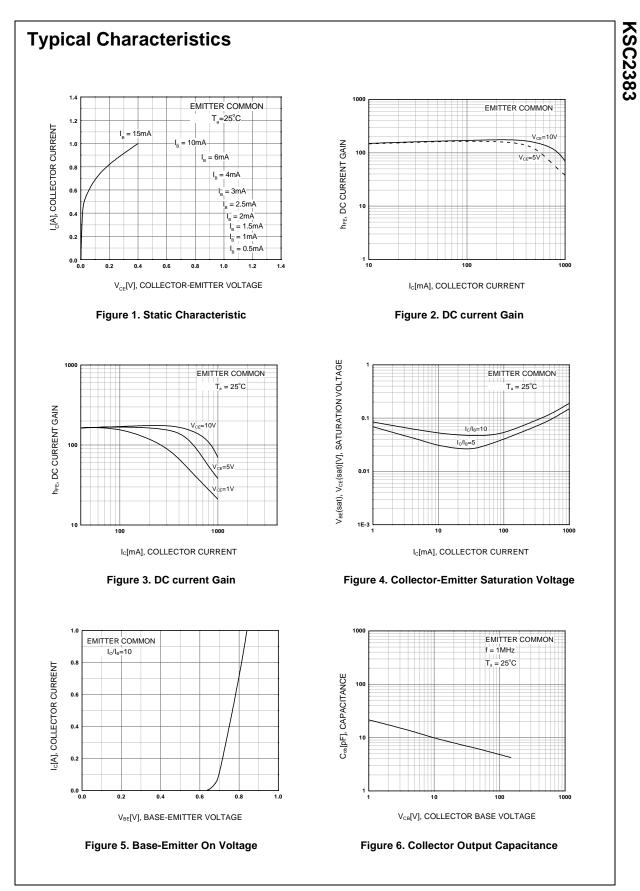
Electrical Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	V _{CB} =150V, I _E =0			1	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} =6V, I _C =0			1	μΑ
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA, I _B =0	160			V
h _{FE}	DC Current Gain	V _{CE} =5V, I _C =200mA	60		320	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =500mA, I _B =50mA			1.5	V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} =5V, I _C =5mA	0.45		0.75	V
f _T	Current Gain Bandwidth Product	V _{CE} =5V, I _C =200mA	20	100		MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz			20	pF

h_{FE} Classification

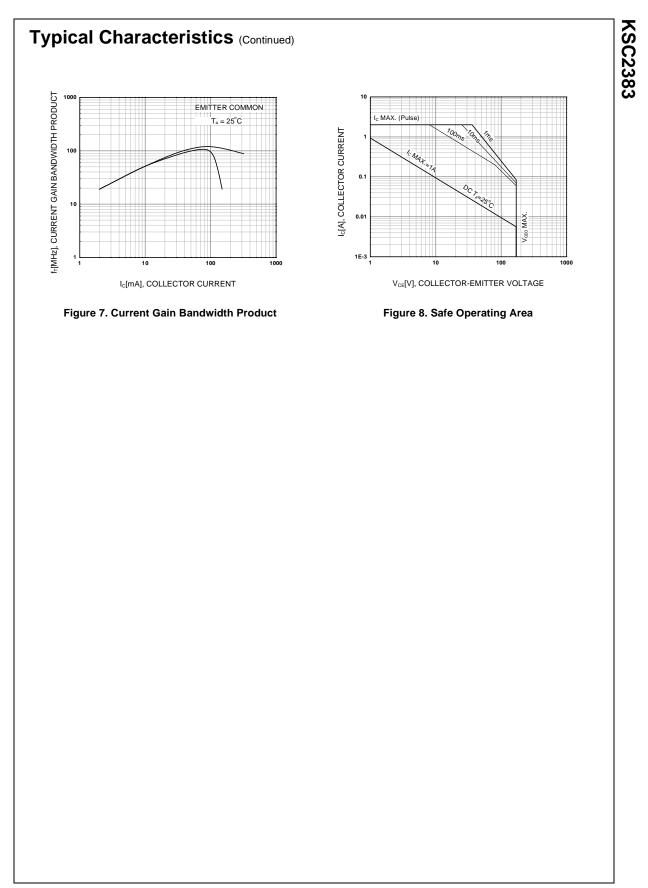
Classification	R	0	Y
h _{FE}	60 ~ 120	100 ~ 200	160 ~ 320

KSC2383

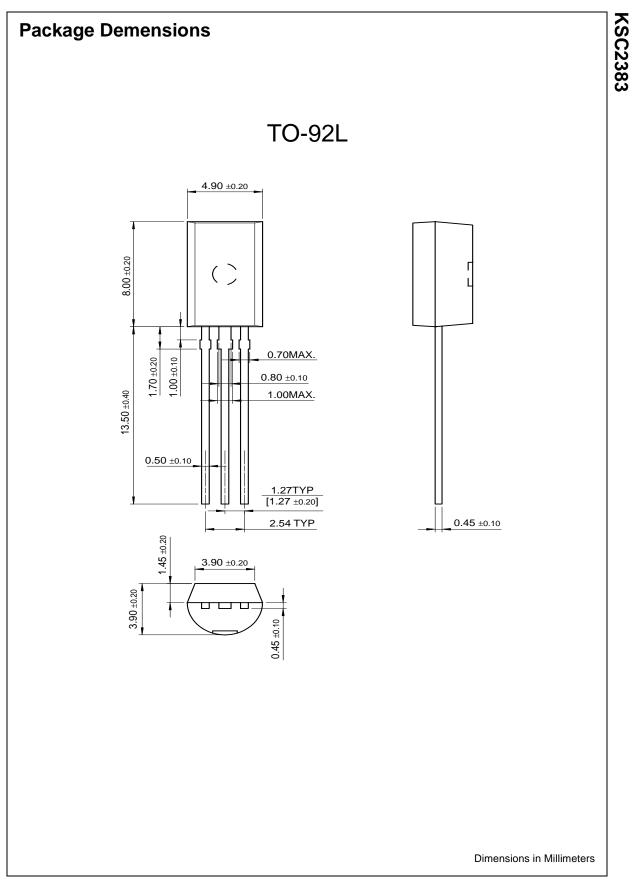


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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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