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

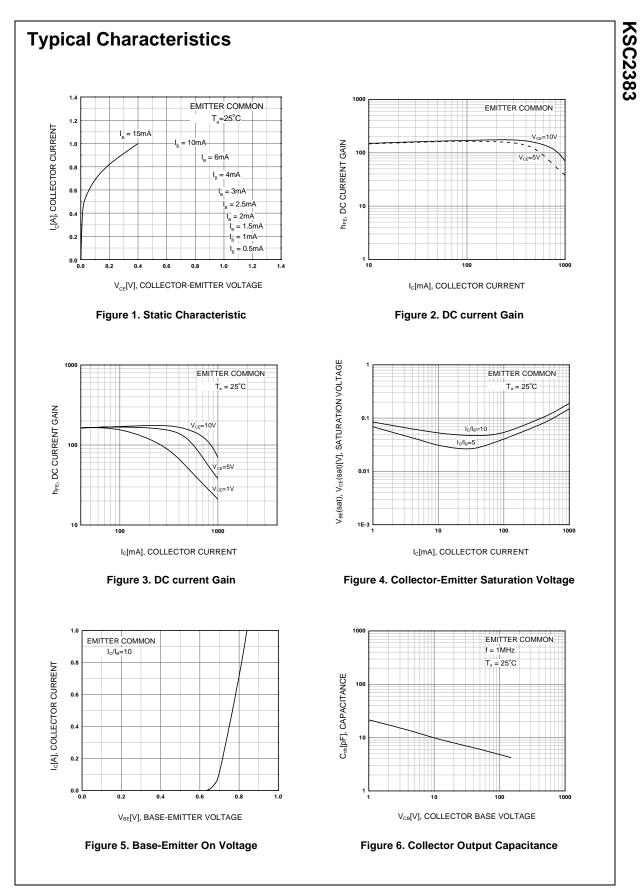
Electrical Characteristics Ta=25°C unless otherwise noted

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 I _C =500mA, I _B =50mA V _{CE} =5V, I _C =5mA 0.45			320	
V _{CE} (sat)	Collector-Emitter Saturation Voltage				1.5	V
V _{BE} (on)	Base-Emitter On Voltage				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

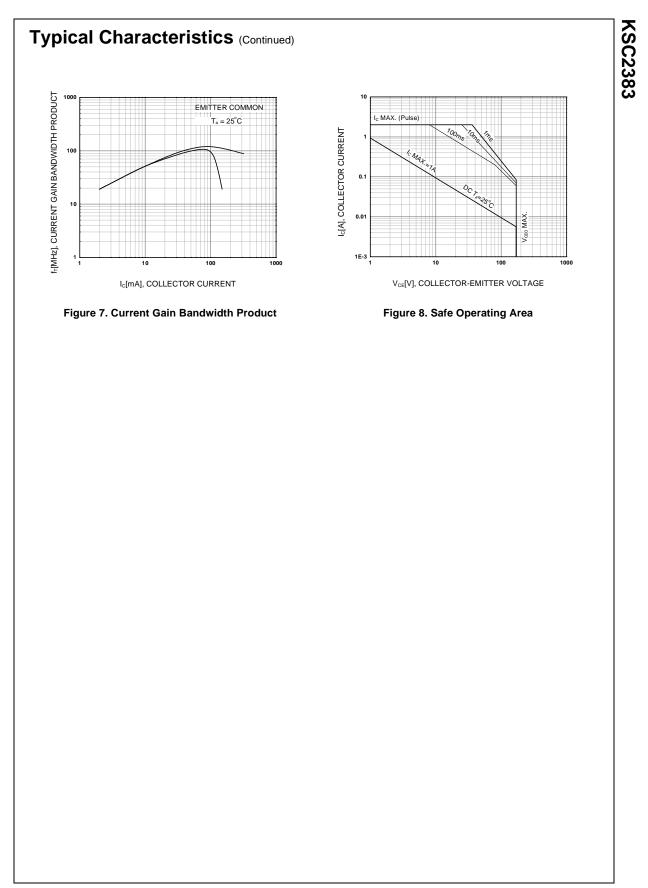
Classification	R	0	Y
h _{FE}	60 ~ 120	100 ~ 200	160 ~ 320

KSC2383

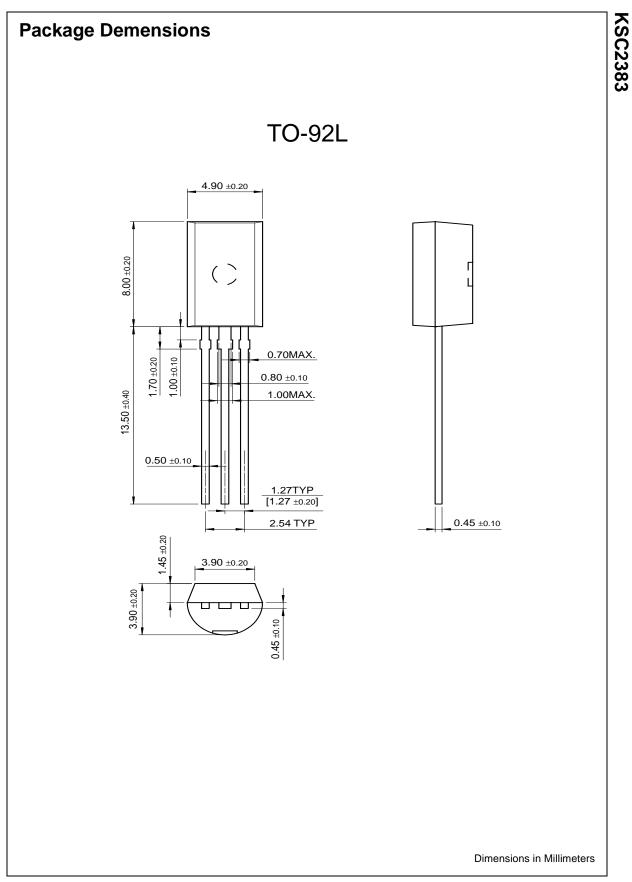


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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition		
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.		
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.		

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Vertical Deflection Output

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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
KSC2383YBU	Full Production	\$0.118	TO-92	3	BULK
KSC2383OBU	Full Production	\$0.118	TO-92	3	BULK
KSC2383YTA	Full Production	\$0.118	TO-92	3	TAPE REEL
KSC2383OTA	Full Production	\$0.118	TO-92	3	TAPE REEL

* 1,000 piece Budgetary Pricing

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