imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SEMICONDUCTOR®

KSC1507

Color TV Chroma Output

- High Collector-Emitter Voltage : V_{CEO} =300V
 Current Gain Bandwidth Product : f_T =40MHz (Min.)



1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

Absolute Maximum	Ratings $T_{C}=25^{\circ}C$ unless otherwise noted
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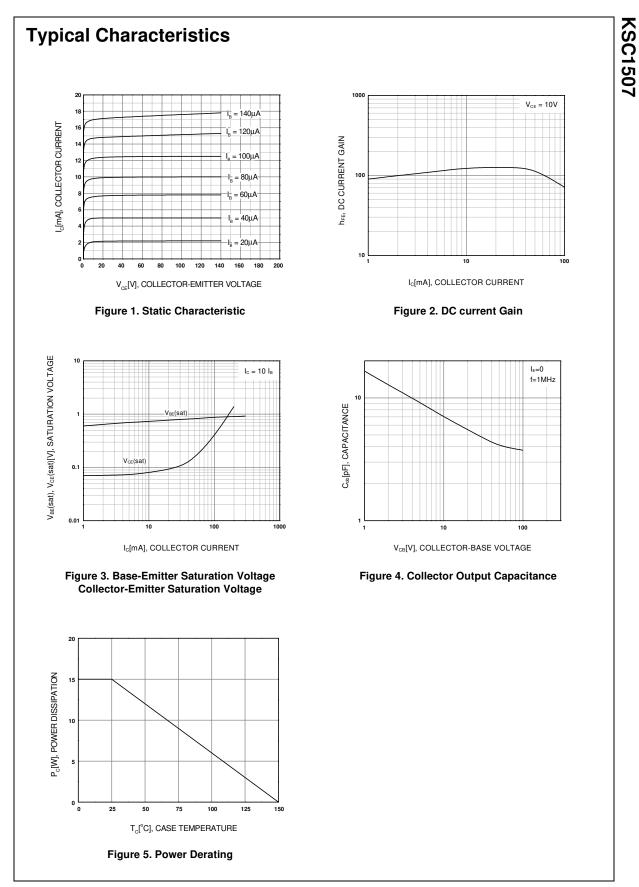
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	300	V
V _{EBO}	Emitter-Base Voltage	7	V
I _C	Collector Current	0.2	mA
P _C	Collector Dissipation (T _C =25°C)	15	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{C} = 100 \mu A, I_{E} = 0$	300			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_{\rm C} = 10 {\rm mA}, I_{\rm B} = 0$	300			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = - 10μA, I _C = 0	7			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = 200 V, I_E = 0$			100	μΑ
h _{FE}	DC Current Gain	V _{CE} = 10V, I _C = 10mA	40		240	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 50mA, I _B = 5mA			2.0	V
f _T	Current Gain Bandwidth Product	V _{CE} = 30V, I _C = 10mA	40	80		MHz
C _{ob}	Output Capacitance	$V_{CB} = 50V, I_E = 0,$ f = 1MHz		4		pF

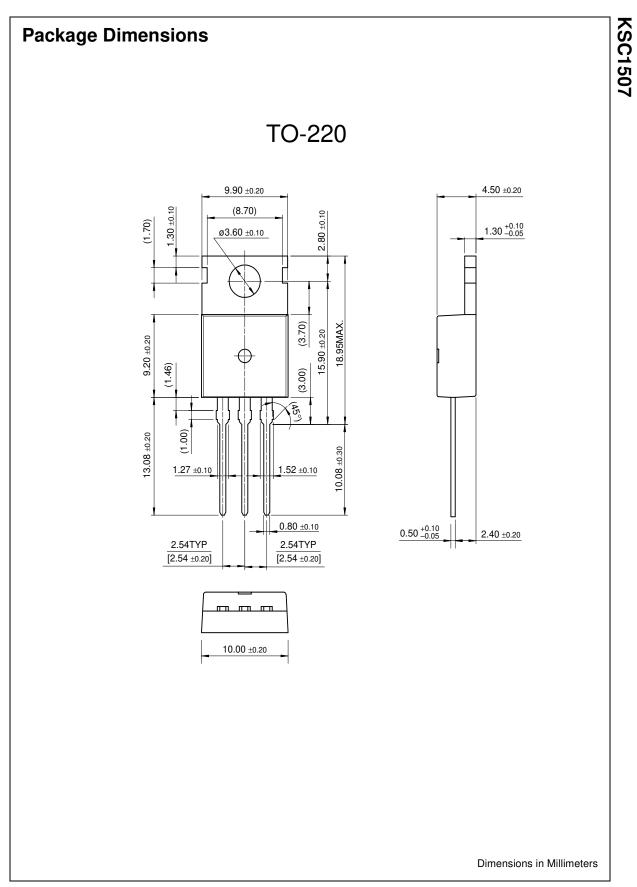
h_{FE} Classification

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



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Rev. A3, September 2002



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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.
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