

KSC2383

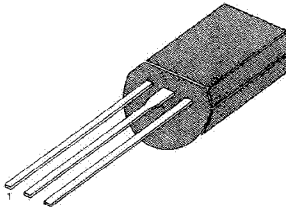
NPN EPITAXIAL SILICON TRANSISTOR

COLOR TV AUDIO OUTPUT
COLOR TV VERTICAL DEFLECTION OUTPUT

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CB0}	160	V
Collector-Emitter Voltage	V _{CE0}	160	V
Emitter-Base Voltage	V _{EB0}	6	V
Collector Current	I _C	1	A
Base Current	I _B	0.5	A
Collector Dissipation	P _C	900	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 ~150	°C

TO-92L



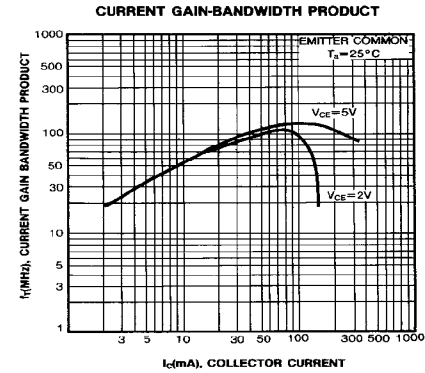
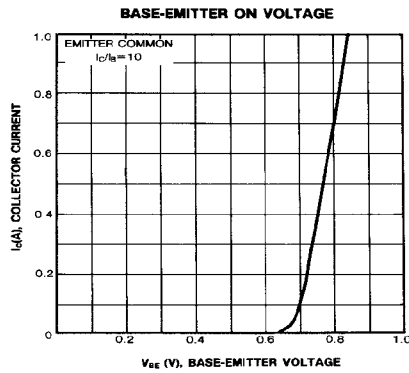
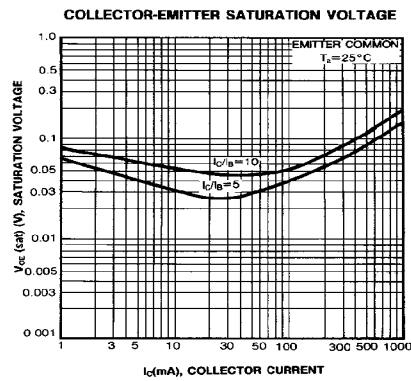
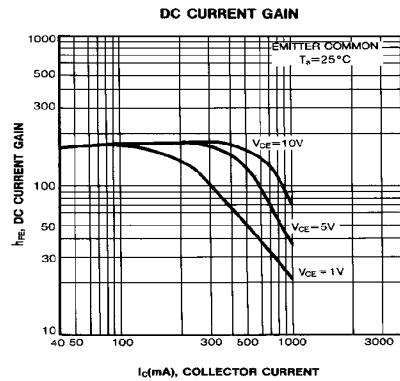
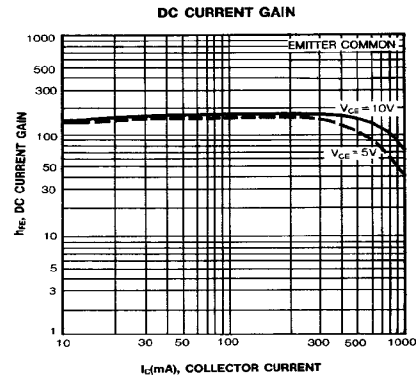
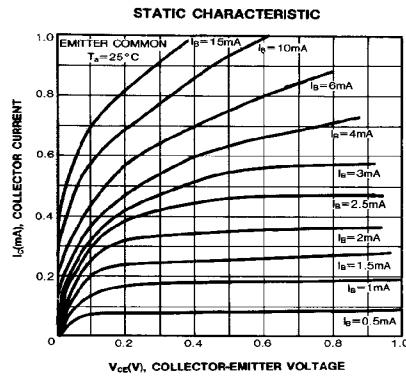
1. Emitter 2. Collector 3. Base

ELECTRICAL CHARACTERISTICS (T_A=25°C)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-off Current	I _{CBO}	V _{CB} =150V, I _E =0			1	μA
Emitter Cut-off Current	I _{EB0}	V _{EB} =6V, I _C =0			1	μA
Collector-Emitter Breakdown Voltage	BV _{CE0}	I _C =10mA, I _B =0	160			V
DC Current Gain	h _{FE}	V _{CE} =5V, I _C =200mA	60		320	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	I _C =500mA, I _B =50mA			1.5	V
Base-Emitter On Voltage	V _{BE} (on)	V _{CE} =5V, I _C =5mA	0.45		0.75	V
Current Gain-Bandwidth Product	f _T	V _{CE} =5V, I _C =200mA	20	100		MHz
Output Capacitance	C _{OB}	V _{CB} =10V, I _E =0, f=1MHz			20	pF

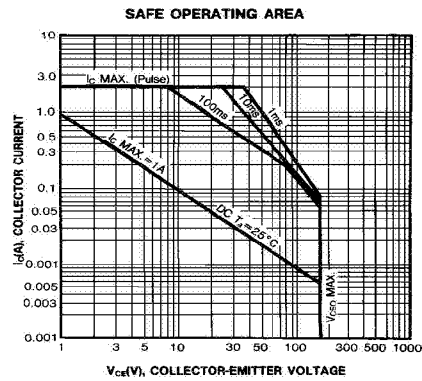
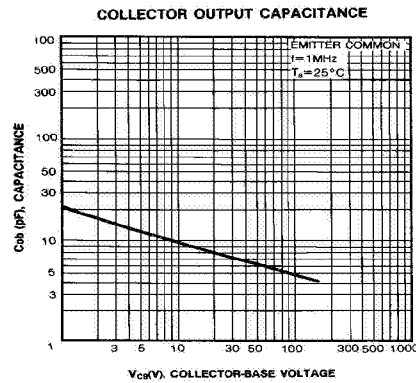
h_{FE} CLASSIFICATION

Classification	R	O	Y
h _{FE}	60-120	100-200	160-320



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FAIRCHILD
SEMICONDUCTOR TM