FAIRCHILD SEMICONDUCTOR KSA1695 Audio Power Amplifier • High Current Capability : I_C = -15A • High Power Dissipation • Wide S.O.A • Complement to KSC4468

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	-160	V
V _{CEO}	Collector-Emitter Voltage	-140	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _C	Collector Current (DC)	-8	A
I _{CP}	Collector Current (Pulse)	-16	A
P _C	Collector Dissipation (T _C =25°C)	80	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 =-5mA, I _E =0	-160			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =-10mA, R _{BE} =∞	-140			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =-5mA, I _C =0	-6			V
I _{CBO}	Collector Cut-off Current	V _{CB} =-80V, I _E =0			-0.1	mA
I _{EBO}	Emitter Cut-off Current	V _{EB} =-4V, I _C =0			-0.1	mA
h _{FE1}	* DC Current Gain	V _{CE} =-5V, I _C =-1A	60		200	
h _{FE2}	DC Current Gain	V _{CE} =-5V, I _C =-6A	20			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =-5A, I _B =-0.5A			-2.5	V
V _{BE} (on)	Base-Emitter ON Voltage	V _{CE} =-5V, I _C =-1A			-1.5	V
f _T	Current Gain Bandwidth Product	V _{CE} =-5V, I _C =-1A		30		MHz
C _{ob}	Output Capacitance	V _{CB} =-10V, f=1MHz		300		pF
t _{ON}	Turn ON Time	V _{CC} =-20V,		0.25		μs
t _F	Fall Time	$I_{\rm C} = 1$ A = $10I_{\rm B1} = -10I_{\rm B2}$		0.53		μs
t _{STG}	Storage Time	$R_L = 20\Omega$		1.61		μs

* Pulse Test : PW=20us

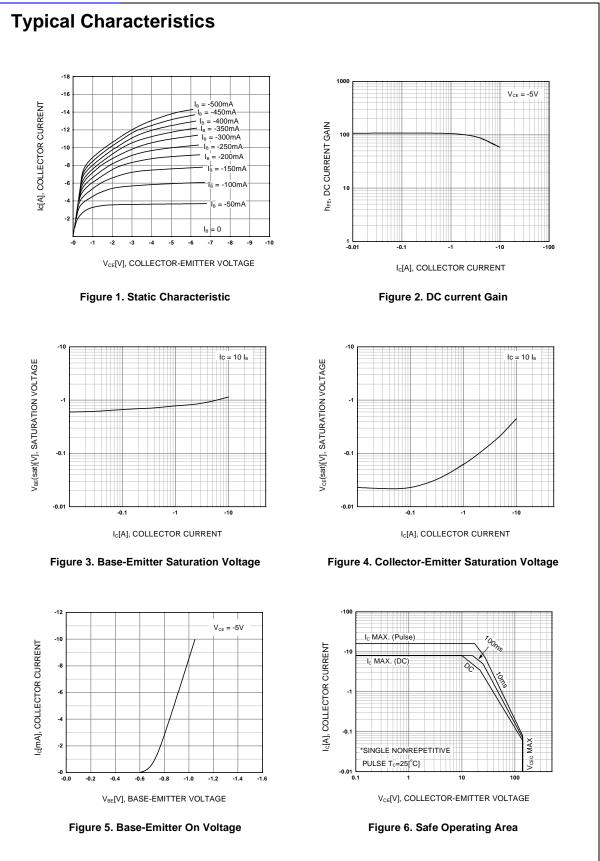
*h_{FE} Classification

Classification	0	Y
h _{FE1}	60 ~ 120	100 ~ 200

TO-3P

1.Base 2.Collector 3.Emitter

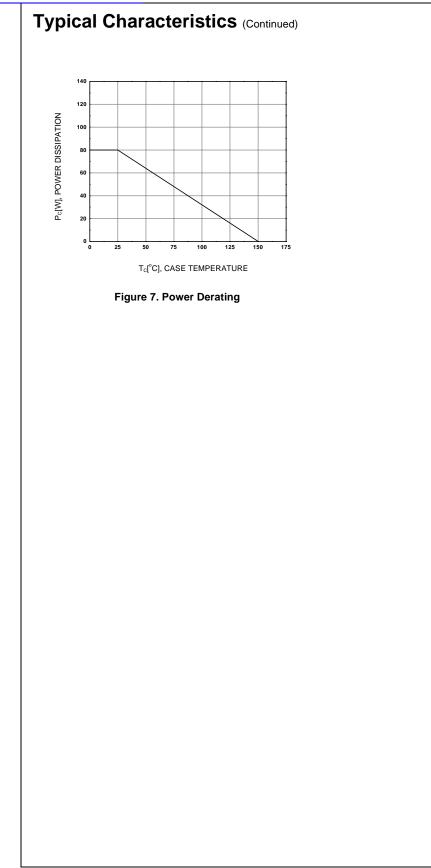
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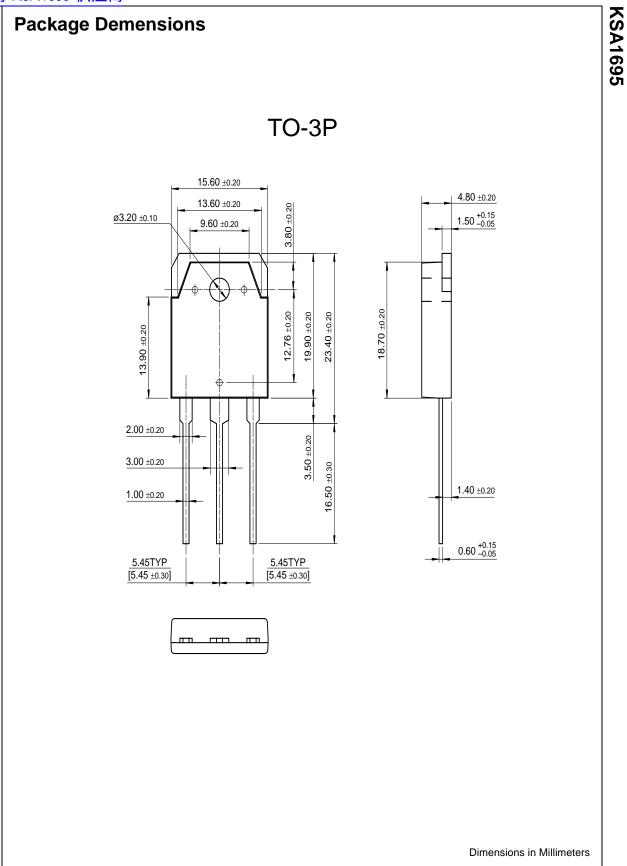
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