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!



Contact us

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FAIRCHILD SEMICONDUCTOR® KSC4010 Audio Power Amplifier • High Current Capability : I_C=6A • High Power Dissipation • Wide S.O.A • Complement to KSA3010

NPN Epitaxial Silicon Transistor

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

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	120	V	
V _{CEO}	Collector-Emitter Voltage	120	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current (DC)	6	A	
I _{CP}	Collector Current (Pulse)	12	A	
P _C	Collector Dissipation (T _C =25°C)	60	W	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	- 50 ~ 150	°C	

Electrical Characteristics T_C=25°C unless otherwise noted

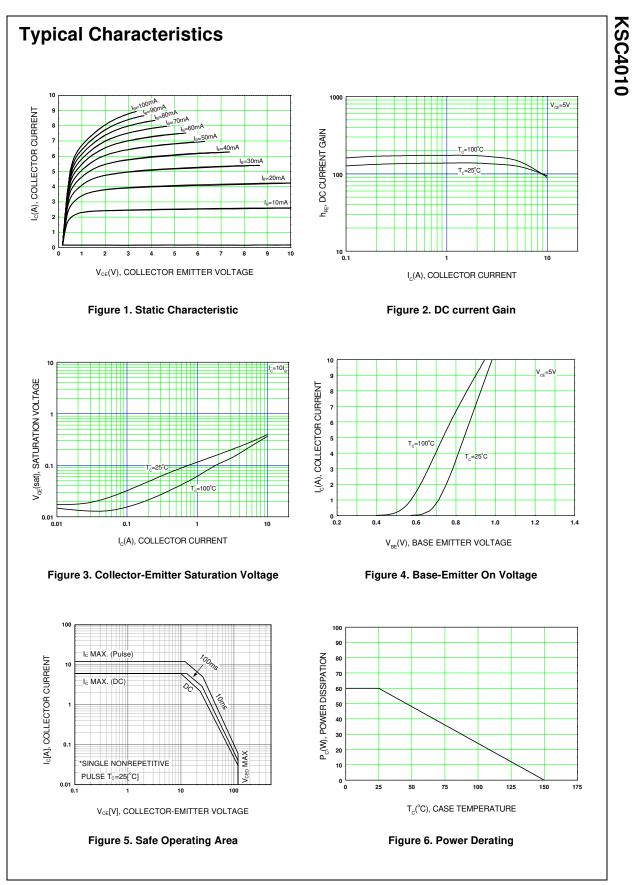
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	V _{CB} = 120V, I _E = 0	-	-	10	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} = 5V, I _C = 0	-	-	10	μΑ
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 5A,, I _B = 0	120	-	-	V
h _{FE}	DC Current Gain	V _{CE} = 5V, I _C = 1A,	55	-	160	
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 = 5A	-	-	1.5	V
f _T	Current Gain Bandwidth Product	V _{CE} = 5V, I _C = 1A	-	30	-	MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz	-	90	-	pF

h_{FE} Classification

Classification	R	0	
h _{FE}	55 ~ 110	80 ~ 160	

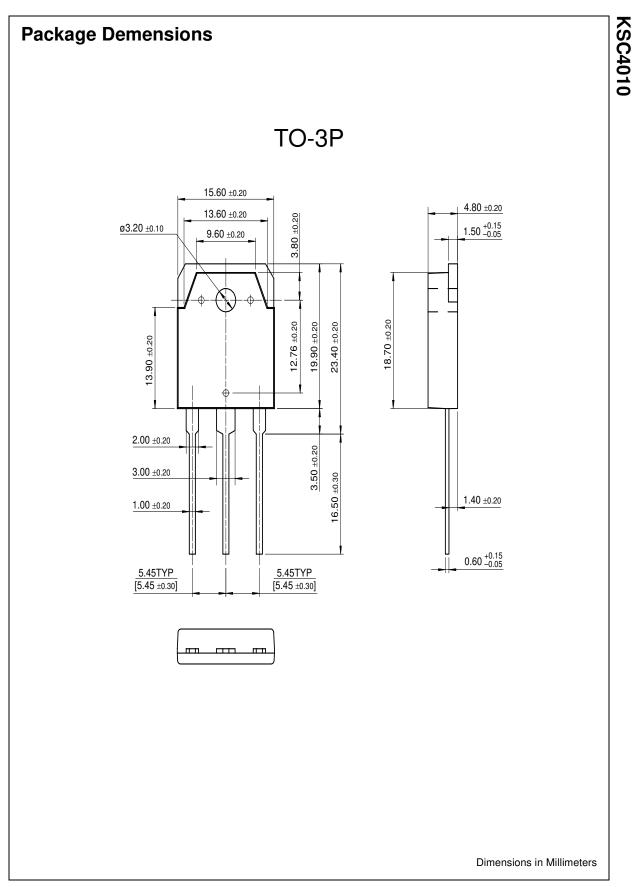
TO-3P

1.Base 2.Collector 3.Emitter



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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.
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