July 2005

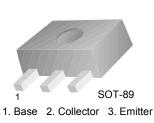
KSB798 PNP Epitaxial Silicon Transistor

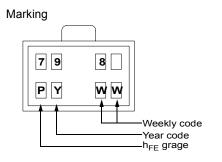


KSB798 PNP Epitaxial Silicon Transistor

Audio Frequency Power Amplifier

- Collector Current : $I_C = -1A$
- Collector Power Dissipation : $P_C = 2W$





Absolute Maximum Ratings T_a = 25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	-30	V
V _{CEO}	Collector-Emitter Voltage	-25	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current (DC)	-1.0	А
I _{CP}	Collector Current (Pulse) *	-1.5	А
P _C	Collector Power Dissipation	2.0	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

* PW \leq 10ms, Duty cycle \leq 50%

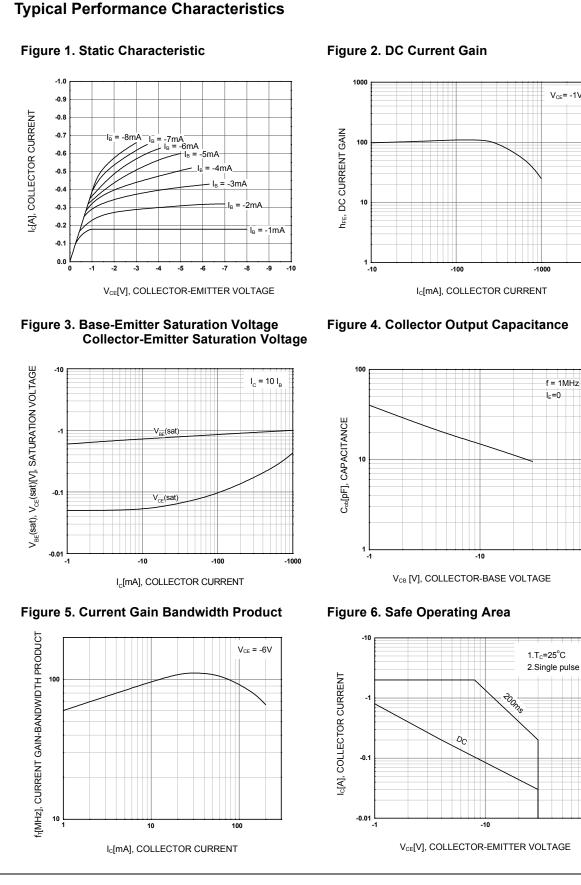
Electrical Characteristics Ta = 25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -100μA, I _E = 0	-30			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA, I _B = 0	-25			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -100μA, I _C = 0	-5			V
I _{CBO}	Collector Cut-off Current	V _{CB} = -30V, I _E = 0			-0.1	μA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -5V, I _C = 0			-0.1	μA
h _{FE1} h _{FE2}	DC Current Gain	$V_{CE} = -1V, I_C = -0.1A$ $V_{CE} = -1V, I_C = -1.0A$	90 50		400	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -1.0A, I _B = -0.1A			-0.4	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -1.0A, I _B = -0.1A			-1.2	V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} = -6V, I _C = -10mA	-0.6		-0.7	V
f _T	Current Gain Bandwidth Product	V _{CE} = -6V, I _C = -10mA		110		MHz
C _{ob}	Output Capacitance	V _{CB} = -6V, I _E = 0, f = 1MHz		18		pF

h _{FE} Classification			
Classification	0	Y	G
h _{FE1}	90 ~ 180	135 ~ 270	200 ~ 400

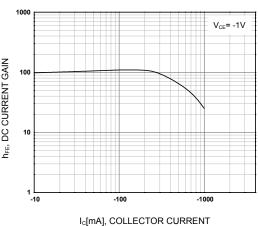
Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
798	KSB798	SOT-89	13"		4,000

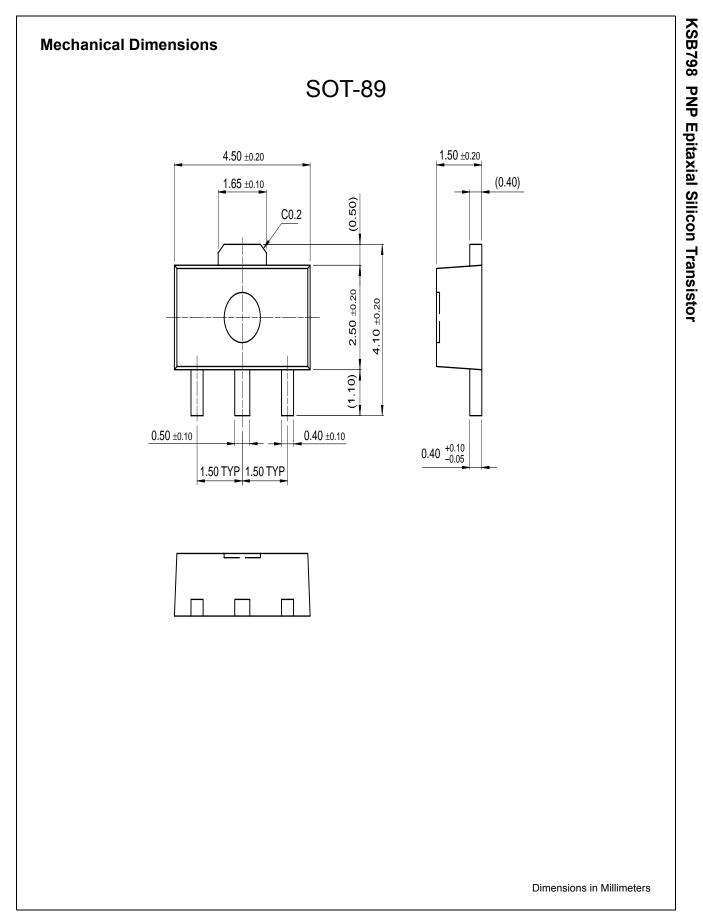


-100

-100







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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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