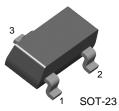
FAIRCHILD

SEMICONDUCTOR®

KSC2715

FM RADIO AMP, MIX, CONV, OSC, IF AMP



1. Base 2. Emitter 3. Collector

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a=25$ °C unless otherwise noted

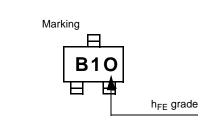
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	35	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	4	V
c	Collector Current	50	mA
P _C	Collector Power Dissipation	150	mW
Т _Ј	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics $T_a=25^{\circ}C$ unless otherwise noted

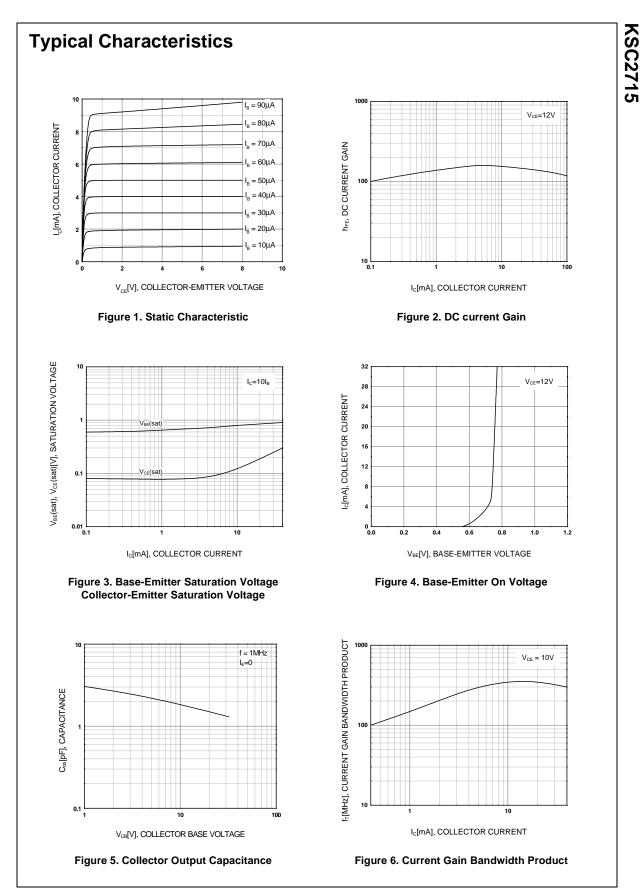
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	V _{CB} =35V, I _E =0			0.1	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} =4V, I _C =0			1	μΑ
h _{FE}	DC Current Gain	V _{CE} =12V, I _C =2mA	70		240	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =10mA, I _B =1mA			0.4	V
V _{BE} (on)	Base-Emitter On Voltage	I _C =10mA, I _B =1mA			1.0	V
f _T	Current Gain Bandwidth Product	V _{CE} =10V, I _C =1mA	100		400	MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz		2	3.2	pF

h_{FE} Classification

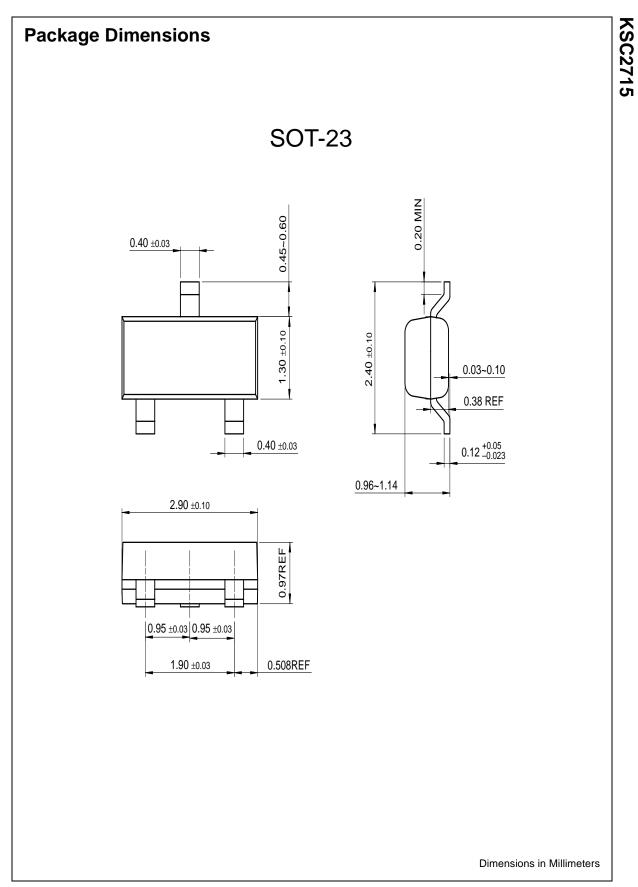
Classification	0	Y
h _{FE}	70 ~ 140	120 ~ 240



KSC2715



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FACT Quiet Series™		OPTOLOGIC®	SILENT SWITCHER [®]	VCX™
Across the board. Around the world.™		OPTOPLANAR™	SMART START™	
The Power Franchise [®]		PACMAN™	SPM™	
Programmable Active Droop™		POP™	Stealth™	

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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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Definition of Terms

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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.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

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