

SEMICONDUCTOR®

KSA1013

Color TV Audio Output Color TV Vertical Deflection Output



1. Emitter 2. Collector 3. Base

PNP EPITAXIAL SILICON TRANSISTOR

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

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	-160	V
V _{CEO}	Collector-Emitter Voltage	-160	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _C	Collector Current	-1	A
I _B	Base Current	-0.5	A
P _C	Collector Power Dissipation	900	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

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

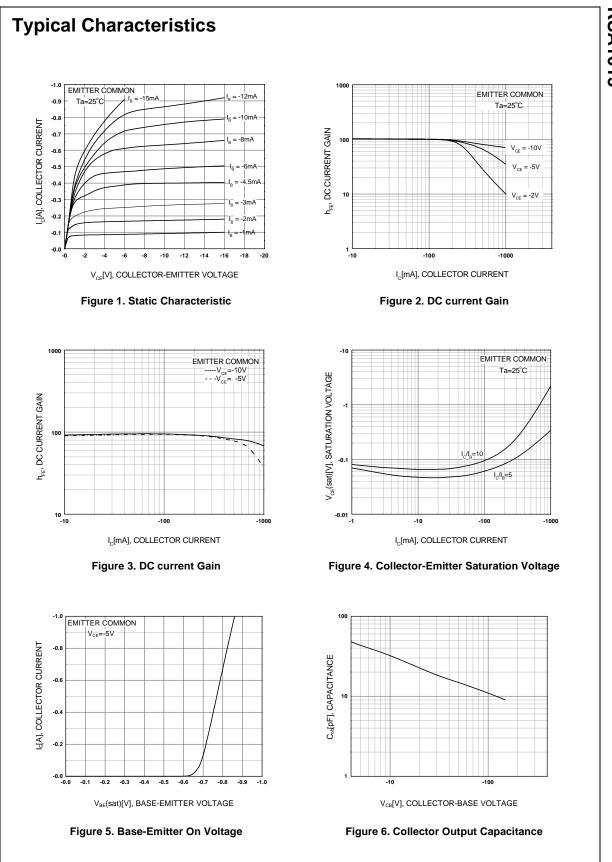
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	V _{CB} = -150V, I _E =0			-1	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} = -6mA, I _C =0			-1	μΑ
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA, I _B =0	-160			V
h _{FE}	DC Current Gain	V _{CE} = -5V, I _C = -200mA	60		320	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -500mA, I _B = -50mA			-1.5	V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} = -5V, I _C = -5mA	-0.45		-0.75	V
f _T	Current Gain Bandwidth Product	V _{CE} = -5V, I _C = -200mA	15	50		MHz
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0, f=1MHz			35	pF

h_{FE} Classification

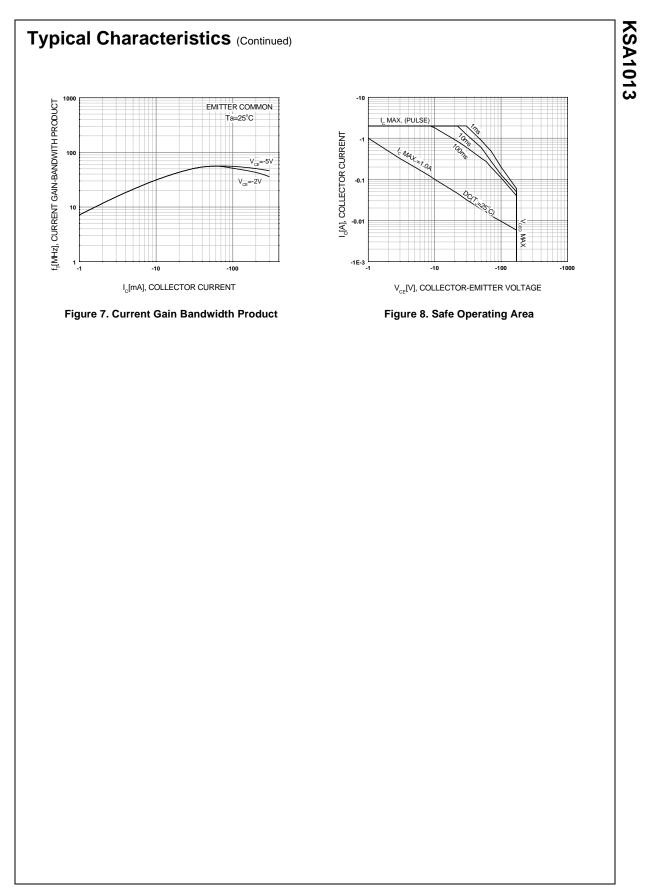
Classification	R	0	Y
h _{FE}	60 ~ 120	100 ~ 200	160 ~ 320

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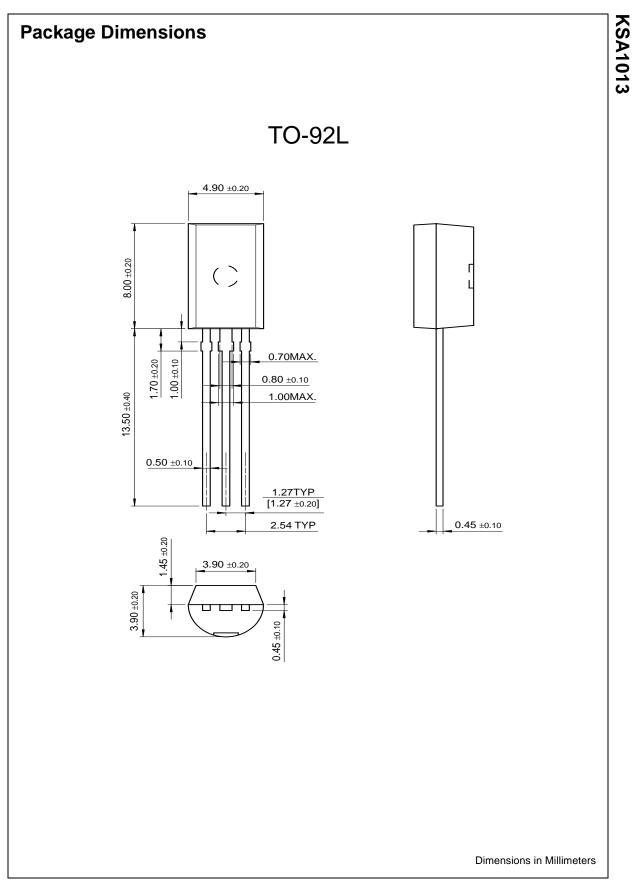
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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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