

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°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	Α
I _B	Base Current	-0.5	А
P _C	Collector Power Dissipation	900	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics T_a =25°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	Υ
h _{FE}	60 ~ 120	100 ~ 200	160 ~ 320

Typical Characteristics

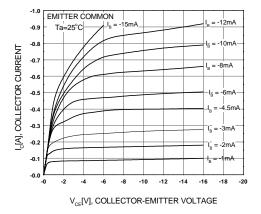


Figure 1. Static Characteristic

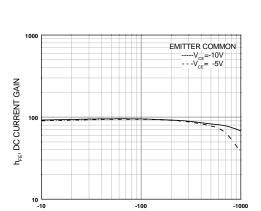


Figure 3. DC current Gain

 $I_{\rm c}$ [mA], COLLECTOR CURRENT

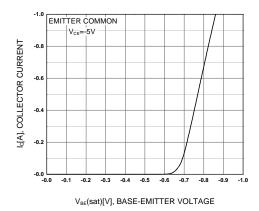


Figure 5. Base-Emitter On Voltage

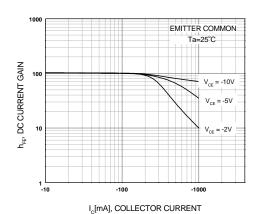


Figure 2. DC current Gain

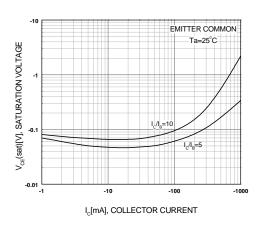
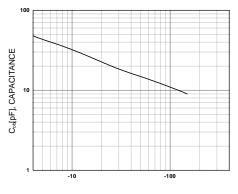


Figure 4. Collector-Emitter Saturation Voltage



 $V_{CB}[V]$, COLLECTOR-BASE VOLTAGE

Figure 6. Collector Output Capacitance

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Typical Characteristics (Continued)

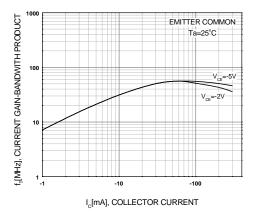


Figure 7. Current Gain Bandwidth Product

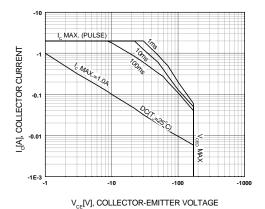
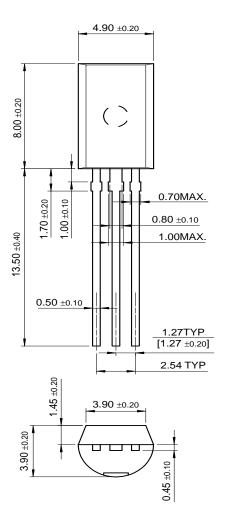


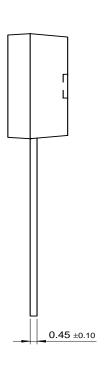
Figure 8. Safe Operating Area



Package Dimensions

TO-92L





Dimensions in Millimeters

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CoolFET™	FASTr™	MicroFET™	PowerTrench [®]	SuperSOT™-6
$CROSSVOLT^{TM}$	FRFET™	MicroPak™	QFET™	SuperSOT™-8
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E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
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Across the board.	Around the world.™	OCXPro™	RapidConnect™	UltraFET [®]
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Programmable Ad	ctive Droop™	OPTOPLANAR™	SMART START™	

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