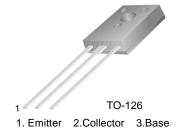


KSC2688

Color TV Chroma Output & Video Output



NPN Epitaxial Silicon Transistor

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

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	300	V
V_{CEO}	Collector-Emitter Voltage	300	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	200	mA
P_{C}	Collector Dissipation (T _a =25°C)	1.25	W
P _C	Collector Dissipation (T _C =25°C)	10	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

Electrical Characteristics $T_C=25$ °C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_C = 0.1 \text{mA}, I_E = 0$	300			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = 5mA, I_B = 0, R_{BE} = \infty$	300			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_E = 0.1 \text{mA}, I_C = 0$	5			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = 200V, I_{E} = 0$			100	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 4V, I_{C} = 0$			100	μΑ
h _{FE}	* DC Current Gain	$V_{CE} = 10V, I_{C} = 10mA$	40		250	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	$I_C = 50 \text{mA}, I_B = 5 \text{mA}$			1.5	V
f _T	Current Gain Bandwidth Product	$V_{CE} = 30V, I_{E} = -10mA$	50	80		MHz
C _{re}	Feed Back Capacitance	$V_{CB} = 30V$, $I_E = 0$ f = 1MHz			3	pF

^{*} Pulse Test: PW≤350μs, Duty Cycle≤2%

h_{FE} Classificntion

Classification	R	0	Y	G
h _{FE}	40 ~ 80	60 ~ 120	100 ~ 200	160 ~ 250

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Typical Characteristics

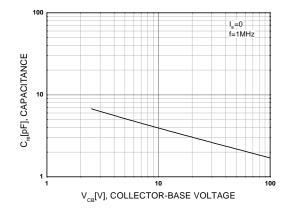


Figure 1. Feedback Capacitance

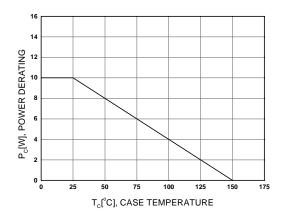


Figure 2. Power Derating

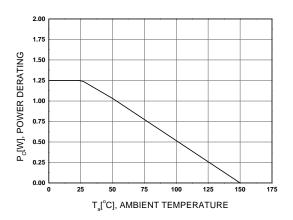
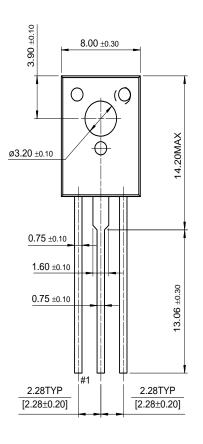


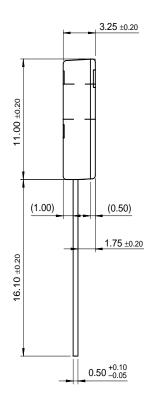
Figure 3. Power Derating

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Package Demensions

TO-126





Dimensions in Millimeters

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