FAIRCHI

SEMICONDUCTOR TM



KSC2688

Color TV Chroma Output & Video Output

TO-126

1. Emitter 2.Collector 3.Base

KSC2688

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°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
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

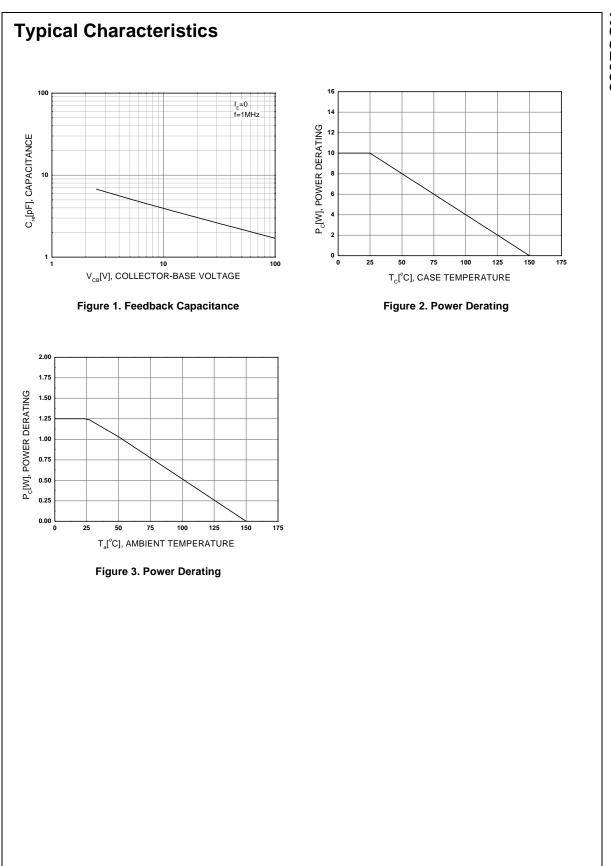
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =0.1mA, I _E = 0	300			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_{C} = 5$ mA, $I_{B} = 0$, $R_{BE} = \infty$	300			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = 0.1mA, I _C = 0	5			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = 200 V, I_E = 0$			100	μΑ
IEBO	Emitter Cut-off Current	$V_{EB} = 4V, I_{C} = 0$			100	μA
h _{FE}	* DC Current Gain	$V_{CE} = 10V, I_{C} = 10mA$	40		250	1
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = 50mA, I _B = 5mA		34	1.5	V
f _T	Current Gain Bandwidth Product	V _{CE} = 30V, I _E = -10mA	50	80	079	MHz
C _{re}	Feed Back Capacitance	V _{CB} = 30V, I _E = 0 f = 1MHz	1	M.M	3	pF

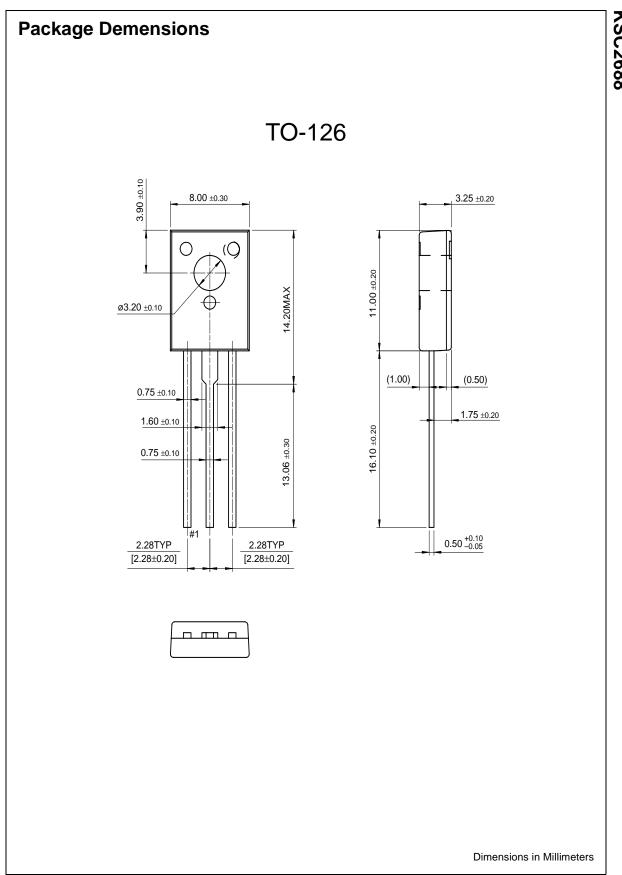
* Pulse Test: PW≤350μs, Duty Cycle≤2%

h_{FE} Classificntion

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



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Definition of Terms

Datasheet Identification	Product Status	Definition
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