

isc Silicon NPN Power Transistor

2SC2688

DESCRIPTION

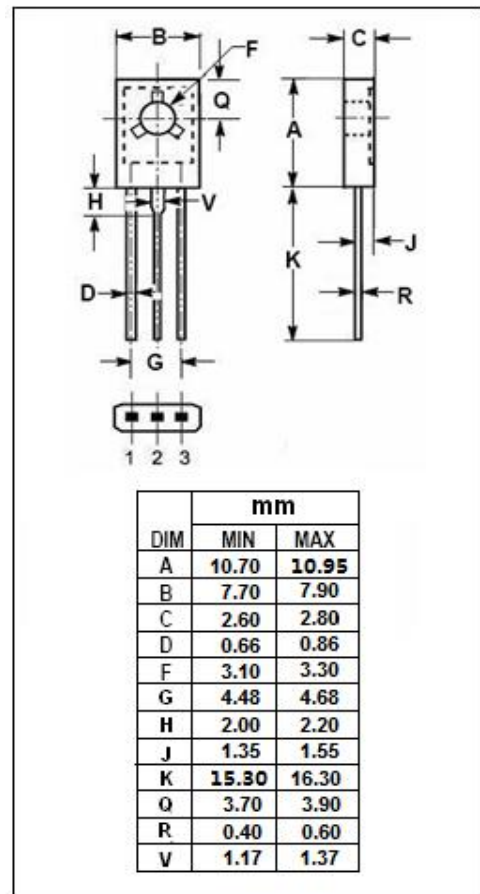
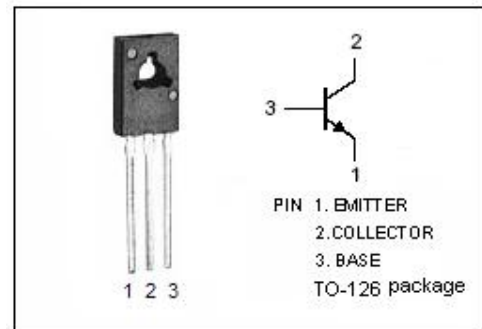
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 300V(\text{Min})$
- Collector-Emitter Saturation Voltage-
: $V_{CE(sat)} = 1.5V(\text{Max}) @ I_C = 50mA, I_B = 5mA$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in Color TV chroma output circuits.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
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-Continuous	0.2	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	10	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA ; I _B = 0V	300			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 50mA; I _B = 5mA			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A			1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 200V ; I _E =0			0.1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C =0			0.1	μ A
h _{FE}	DC Current Gain	I _C = 10mA ; V _{CE} = 10V	40		250	

◆ h_{FE} Classifications

N	M	L	K
40-80	60-120	100-200	160-250

NOTICE:

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