

isc Silicon NPN Power Transistor
2SC4313
DESCRIPTION

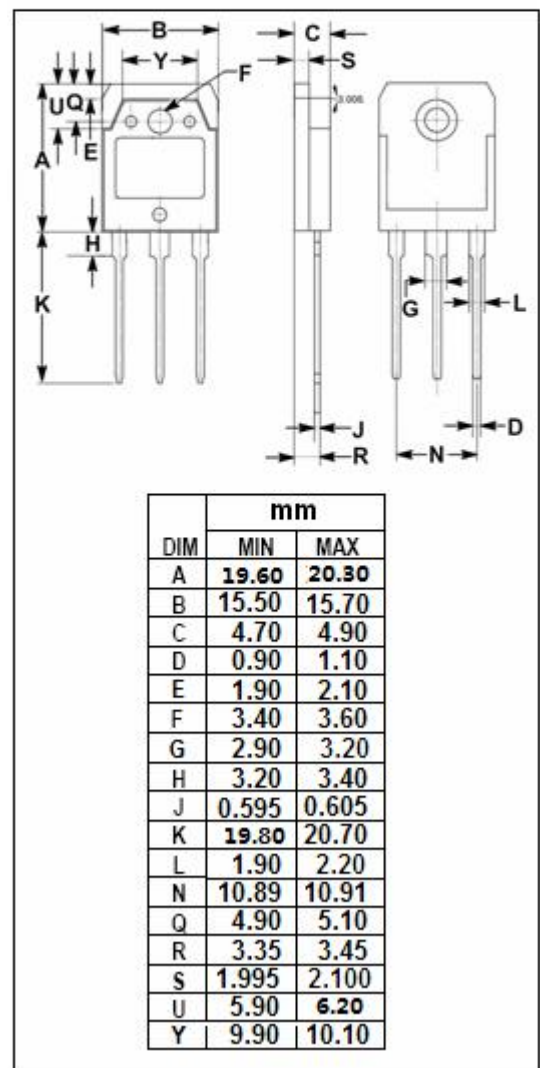
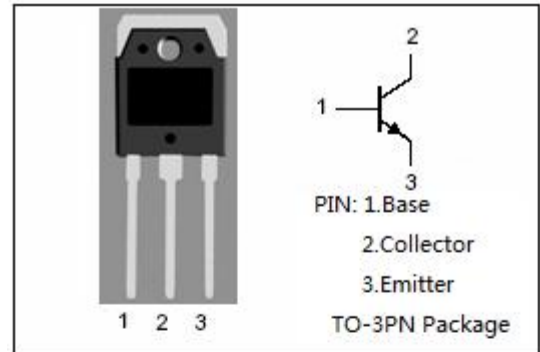
- Collector-Emitter Sustaining Voltage- :
V_{CEO(SUS)}= 800V(Min)
- Fast Switching speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Color TV horizontal output applications

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	900	V
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	7	V
I _C	Collector Current-Continuous	10	A
I _{CM}	Collector Current-Peak	20	A
P _C	Collector Power Dissipation @ T _C =25°C	100	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°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 = 0.2A ; I _B = 0	800			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			2.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 900V ; I _E =0			100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C =0			100	μ A
h _{FE-1}	DC Current Gain	I _C = 5A ; V _{CE} = 2V	7			
h _{FE-2}	DC Current Gain	I _C =1mA ; V _{CE} = 2V	5			

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