

isc Silicon NPN Power Transistor

2SC4313

DESCRIPTION

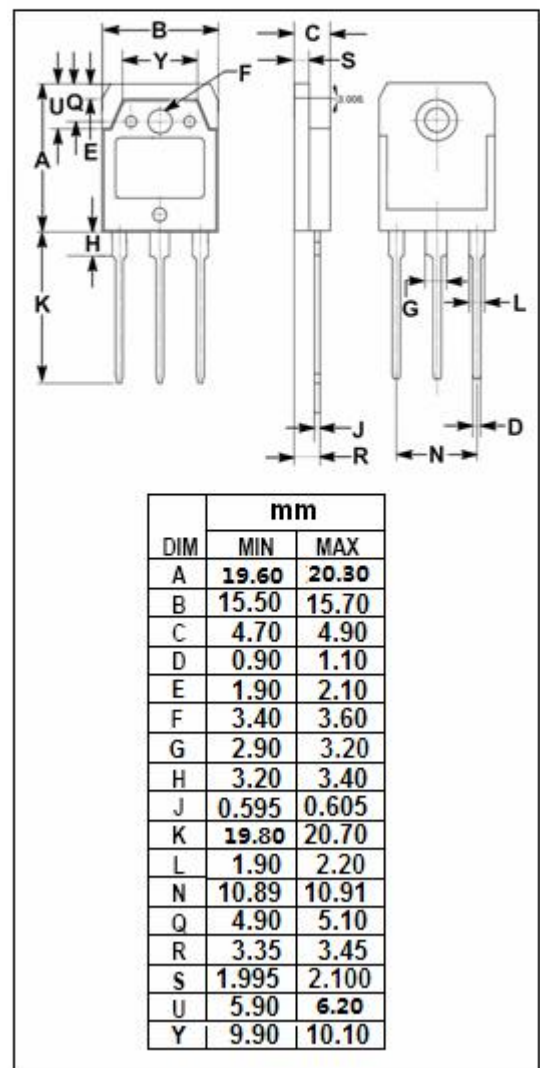
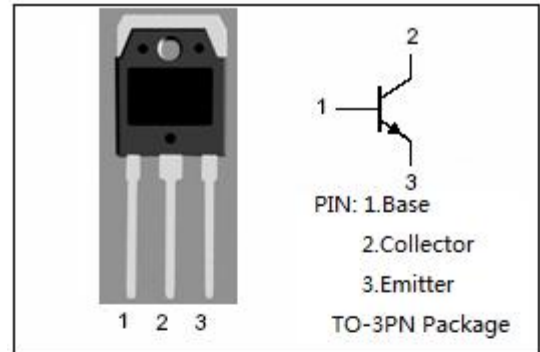
- Collector-Emitter Sustaining Voltage- :
VCEO(SUS)= 800V(Min)
- Fast Switching speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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



isc Silicon NPN Power Transistor**2SC4313****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = 0.2\text{A}$; $I_B = 0$	800			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = 5\text{A}$; $I_B = 1\text{A}$			1.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = 5\text{A}$; $I_B = 1\text{A}$			2.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = 900\text{V}$; $I_E = 0$			100	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = 7\text{V}$; $I_C = 0$			100	μA
h_{FE-1}	DC Current Gain	$I_C = 5\text{A}$; $V_{CE} = 2\text{V}$	7			
h_{FE-2}	DC Current Gain	$I_C = 1\text{mA}$; $V_{CE} = 2\text{V}$	5			

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