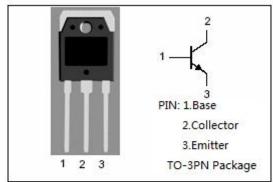


isc Silicon NPN Power Transistor

2SC2305

DESCRIPTION

- With TO-3 Package
- · Low collector saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.



APPLICATIONS

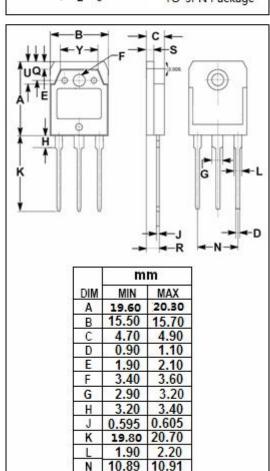
• Designed for color TV horizontal deflection driver

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

ABSOLUTE MAXIMOM NATINGS(18-23 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	400	V				
V _{CEO}	Collector-Emitter Voltage	400	V				
V _{EBO}	Emitter-Base Voltage	8	V				
Ic	Collector Current-Continuous	7	Α				
Pc	Collector Power Dissipation @ T _C =25 °C	80	W				
TJ	Junction Temperature	150	$^{\circ}$				
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$				

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.56	°C/W



R



isc Silicon NPN Power Transistor

2SC2305

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A		1.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A		1.5	٧
I _{CBO}	Collector Cutoff Current	V _{CB} =400V;I _B = 0		0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 8V; I _C =0		0.1	mA
h _{FE-1}	DC Current Gain	I _C = 0.8A; V _{CE} = 5V	15	50	
h _{FE-2}	DC Current Gain	I _C =4A; V _{CE} = 5V	10		



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