

isc Silicon NPN Power Transistor

2SC5305

DESCRIPTION

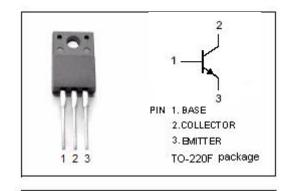
- High Breakdown Voltage
 :V_{(BR)CBO}= 1200V (Min)
- High Speed Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

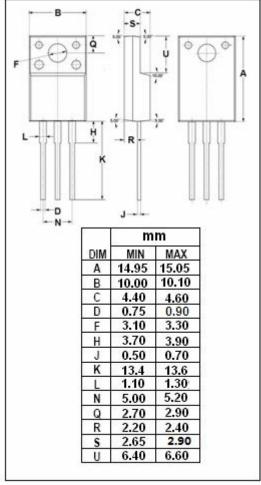
APPLICATIONS



Absolute maximum ratings (T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	1200	V	
V _{CEO}	Collector-Emitter Voltage	600	V	
V _{EBO}	Emitter-Base Voltage	9	V	
lc	Collector Current-Continuous	6	Α	
I _{CM}	Collector Current-Peak	12	Α	
P _C	Collector Power Dissipation @T _a =25 ℃	2	W	
	Collector Power Dissipation @T _C =25 °C	35	VV	
T _j	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 10mA; I _B = 0	600			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.5	V
h _{FE-1}	DC Current Gain	I _C = 0.3A; V _{CE} = 5V	30		50	
h _{FE-2}	DC Current Gain	I _C = 2.5A; V _{CE} = 5V	10			
I _{CBO}	Collector Cutoff Current	V _{CB} = 600V; I _E = 0			10	μА
I _{CES}	Collector Cutoff Current	V _{CE} = 1200V; R _{BE} = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 9V; I _C = 0			1.0	mA

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