

ISC Silicon NPN Power Transistor

2SD310

DESCRIPTION

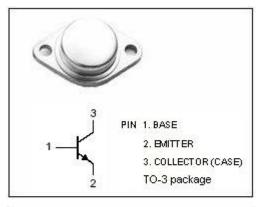
- High Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 400V (Min)
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

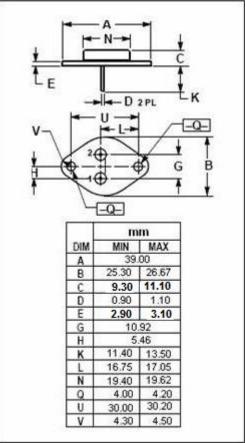
APPLICATIONS

- Power switching
- Power amplification
- · Power driver



SYMBOL	PARAMETER	MAX	UNIT
V _{CBO}	Collector-Base Voltage	800	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	10	V
Ic	Collector Current-Continuous	15	А
l _Β	Base Current-Continuous	6	А
Pc	Collector Power Dissipation @T _C =25°C	150	W
Tj	Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$ C







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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	Ic= 50mA;Ib=0	400			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			1.2	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			1.5	V
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	15		50	
h _{FE-2}	DC Current Gain	I _C =7.5A; V _{CE} = 5V	10			
Ісво	Collector Cutoff Current	V _{CB} = 800V; I _E = 0			0.1	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 400V; I _B = 0			0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	mA

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