

isc Silicon NPN Power Transistor

DESCRIPTION

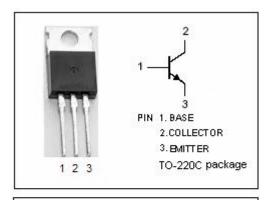
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 400V(Min)
- · Collector-Emitter Saturation Voltage-
 - : $V_{CE(sat)}$ = 1.0V(Max)@ I_C = 4A, I_B = 0.8A
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

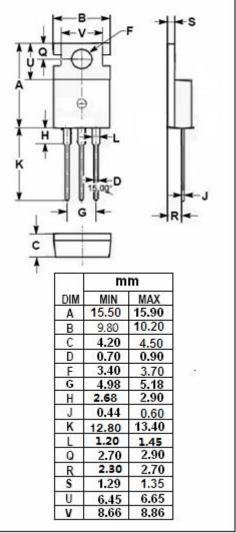


 Designed for high-voltage, high-speed and high power switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	500	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	7	V
lc	Collector Current-Continuous	8	Α
I _{CM}	Collector Current-Peak	16	Α
lв	Base Current-Continuous	4	Α
Pc	Total Power Dissipation @ Tc=25°C	50	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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2SC2898

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

10-23 C unless otherwise specified								
SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT			
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C =30mA ; I _B = 0	400		V			
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10mA; I _C = 0	7		V			
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	V			
Ісво	Collector Cutoff Current	V _{CB} = 400V ; I _E =0		50	μА			
I _{CEO}	Collector Cutoff Current	V _{CE} = 350V ; R _{BE} =0		50	μА			
h _{FE-1}	DC Current Gain	Ic= 4A ; V _{CE} = 5V	15					
h _{FE-2}	DC Current Gain	I _C = 8A ; V _{CE} = 5V	7					
Switching times								
ton	Turn-on Time			0.8	μ S			
t _{stg}	Storage Time	I _C = 8A ,I _{B1} = -I _{B2} = 1.6A,V _{CC} ≈ 150V		2.0	μ S			
t _f	Fall Time			0.8	μ S			

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