

isc Silicon NPN Power Transistor

2SC2244

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

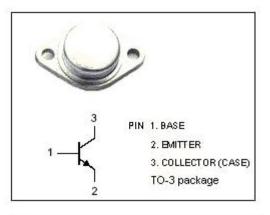
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

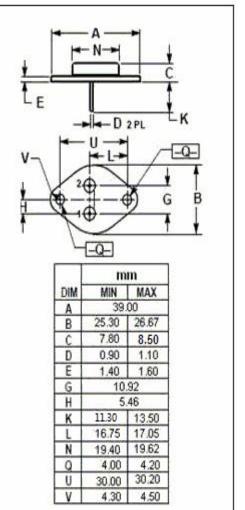
SYMBOL	PARAMETER	МАХ	UNIT
V _{CBO}	Collector-Base Voltage	450	V
Vceo	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	8	A
Ісм	Collector Current-Peak	16	А
I _B	Base Current-Continuous	3	A
Pc	Collector Power Dissipation @T _c =25°C	100	W
Tj	Junction Temperature	200	°C
T _{stg}	Storage Temperature Range	-65~200	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	1.0	°C/W	

1





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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustainig Voltage	I _C = 50mA; L= 25mH	400			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.2	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.5	V
h _{FE}	DC Current Gain	I _C = 3A; V _{CE} = 5V	10			
I _{CBO}	Collector Cutoff Current	V _{CB} = 450V; I _E = 0 T _C =125℃			1.0 4.0	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 400V; I _B = 0			5.0	mA
Іево	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	mA

Switching Times

tr	Rise Time	I _C =3A; I _{B1} =- I _{B2} = 0.6A		1.0	μ S
t _{stg}	Storage Time			2.0	μ S
t _f	Fall Time			1.0	μ S

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2

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