

isc Silicon NPN Power Transistor

2SC2246

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

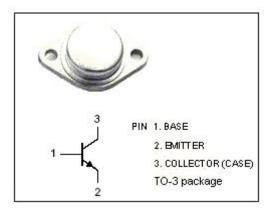
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

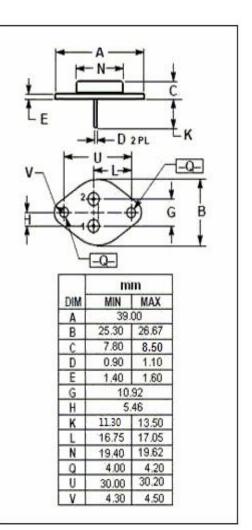
SYMBOL	PARAMETER	МАХ	UNIT	
V _{CBO}	Collector-Base Voltage	450	V	
V _{CEO}	Collector-Emitter Voltage	400	V	
V _{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current-Continuous	uous 15		
I _B	Base Current-Continuous	4	А	
Pc	Collector Power Dissipation @Tc=25°C	100	W	
Tj	Junction Temperature	200	°C	
T _{stg}	Storage Temperature Range	-65~200	°C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.25	℃/W

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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^{\circ}\!\!\!^{\circ}\!\!^{\circ}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 10mA;	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}	DC Current Gain	I _C = 6A; V _{CE} = 5V	10			
I _{CBO}	Collector Cutoff Current	V _{CB} = 450V; I _E = 0			1.0	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 400V; I _B = 0			5.0	mA
Іево	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			0.1	mA

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