

ISC Silicon NPN Power Transistor

2SC1667

DESCRIPTION

- Collector-Emitter Sustaining Voltage-V_{CEO(SUS)}= 90V(Min)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Automotive ignition
- · Switching regulator
- Motor control applications

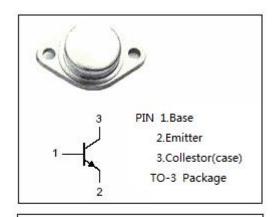


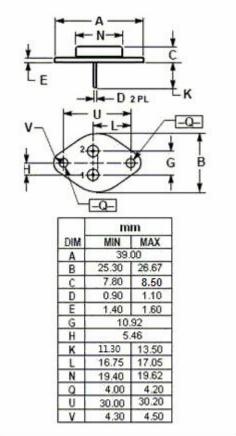
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	90	V
VCEO	Collector-Emitter Voltage	90	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	4	Α
Pc	Collector Power Dissipation @T _C =25°C	50	W
Tj	Junction Temperature	175	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Rresistance,Junction to Case	3.0	°C/W







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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA ;I _B = 0	90			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 90V, I _E = 0			0.1	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 90V, I _B = 0			0.1	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			0.1	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 4V	40		200	



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