

isc Silicon PNP Power Transistors

3CD3C

DESCRIPTION

- Large collector current
- · Low collector saturation voltage
- · High power dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

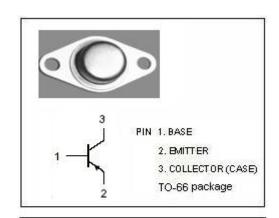
- Designed for use in DC-DC converter
- Driver of solenoid or motor

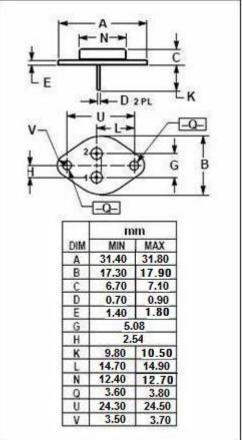
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-80	V
V _{CEO}	Collector-Emitter Voltage	-80	V
V _{EBO}	Emitter-Base Voltage	-4	V
Ic	Collector Current-Continuous	-1	А
Pc	Collector Power Dissipation@Tc=75°C	10	W
T _J	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	12.5	°C/W





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C =- 3mA ; I _B = 0	-80		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E =- 3mA ; I _C = 0	-4		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =- 0.5A; I _B = -0.1A		-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -0.5A; I _B = -0.1A		-1.5	V
Iceo	Collector Cutoff Current	V _{CE} =- 80V; I _B = 0		-1.0	mA
I _{CBO}	Collector Cutoff Current	V _{CB} =- 80V; I _E = 0		-1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0		-1.0	mA
h _{FE}	DC Current Gain	I _C = -0.5A; V _{CE} =-10V	10	180	

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