

INCHANGE SEMICONDUCTOR

isc Silicon PNP Power Transistors

3CD9A

DESCRIPTION

- With TO-3 packaging
- Large collector current
- · Low collector saturation voltage
- High power dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

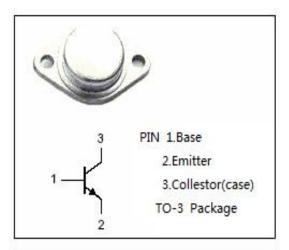
- Designed for use in DC-DC converter
- Driver of solenoid or motor

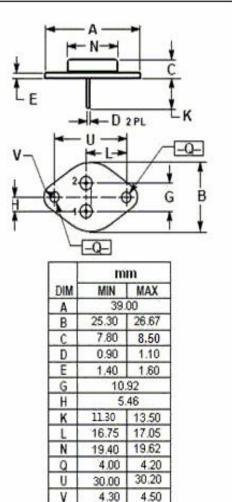
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-30	V
V _{CEO}	Collector-Emitter Voltage	-30	V
V _{EBO}	Emitter-Base Voltage	-4	V
lc	Collector Current-Continuous	-15	А
Pc	Collector Power Dissipation@Tc=75°C 150		W
TJ	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.66	°C /W







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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(BR)}	Collector-Emitter Breakdown Voltage	I _C =- 10mA ; I _B = 0	-30		V
V _{EBO(BR)}	Emitter-Base Breakdown Voltage	I _E =- 10mA ; I _C = 0	-4		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic=- 7.5A; I _B = -1.5A		-2	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -7.5A; I _B = -1.5A		-2	V
I _{CEO}	Collector Cutoff Current	V _{CE} =- 30V; I _B = 0		-3.0	mA
Ісво	Collector Cutoff Current	V _{CB} =- 30V; 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 = -7.5A; V _{CE} = -10V	10	180	

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