

isc Silicon PNP Power Transistor

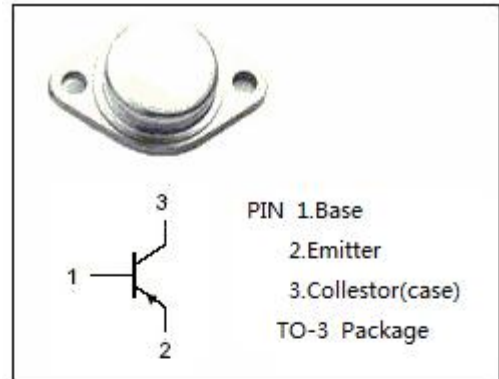
3CF20D

DESCRIPTION

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

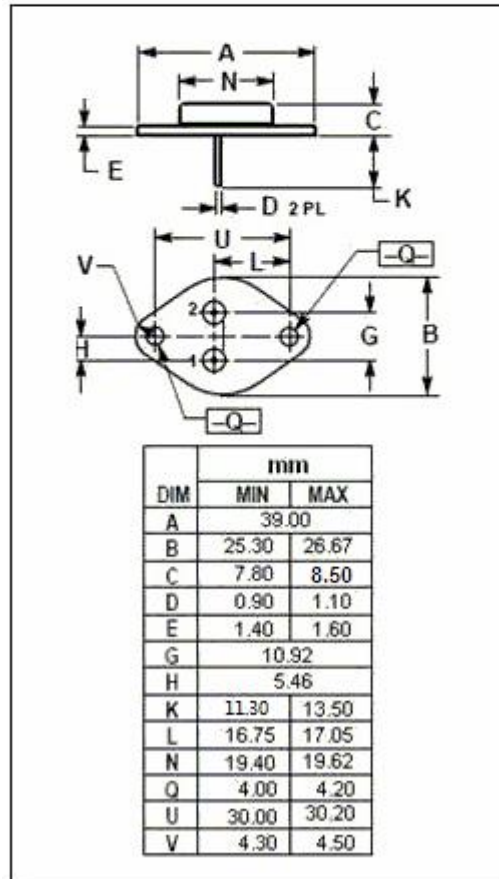
APPLICATIONS

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



ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-300	V
V _{CEO}	Collector-Emitter Voltage	-250	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _c	Collector Current-Continuous	-20	A
P _c	Collector Power Dissipation @T _c =75°C	200	W
T _J	Junction Temperature	175	°C
T _{stg}	Storage Temperature	-55~175	°C



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.75	°C/W

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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV _{CEO}	Collector-Base Breakdown Voltage	I _C =-5mA ; I _B =0	-250		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -10A; I _B = -1A		-1.8	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -250V; I _B =0		-500	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C =0		-500	μA
h _{FE-1}	DC Current Gain	I _C =-10A ; V _{CE} = -10V	15		

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