

isc Silicon NPN Power Transistor

DK151G

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

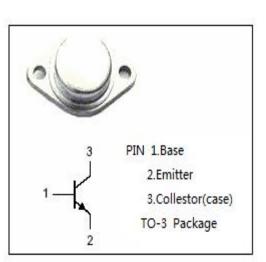
- Designed for use in DC-DC converter
- Driver of solenoid or motor
- For audio amplifier applications

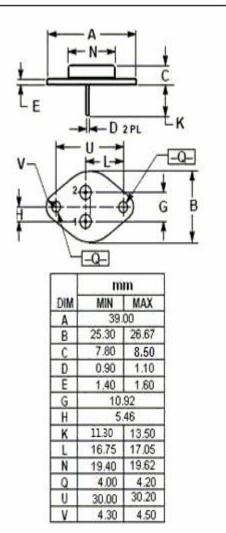
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	250	V
V _{CEO}	Collector-Emitter Voltage	250	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	20	A
Pc	Collector Power Dissipation 150		W
TJ	Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature	-55~175	°C

THERMAL CHARACTERISTICS

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







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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	250		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	250		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 7.5Α; I _B = 0.75Α		0.8	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	Ic= 7.5A; I _B = 0.75A		1.8	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 200V; I _B =0		0.2	mA
I _{сво}	Collector Cutoff Current	V _{CB} = 200V; I _E =0		0.1	mA
IEB	Collector Cutoff Current	V _{EB} =5V;l _C =0		0.1	mA
h _{FE}	DC Current Gain	I _C = 7.5A; V _{CE} = 5V	10		

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