

isc Silicon PNP Power Transistor

NJW21193G

DESCRIPTION

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



APPLICATIONS

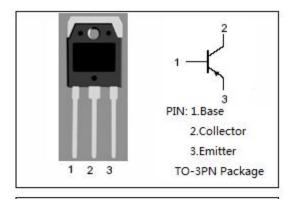
- · Designed for use in DC-DC converter
- · Driver of solenoid or motor
- For audio amplifier applications

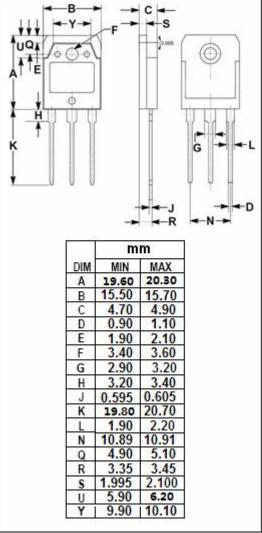
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-400	V
V _{CEO}	Collector-Emitter Voltage	-250	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-30	Α
I _B	Base Current	-5	Α
Pc	Collector Power Dissipation@T _C =25℃	200	W
TJ	Junction Temperature	-65~150	$^{\circ}$
T _{stg}	Storage Temperature	-65~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	0.625	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-250		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1mA; I _E = 0	-400		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-5.0		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -8A; I _B = -0.8A		-1.4	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -16A; I _B = -3.2A		-4.0	V
V _{BE} (on)	Base-Emitter On Voltage	I _C = -8A; V _{CE} = -5V		-2.2	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -250V; I _B =0		-0.1	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = -400V; I _E =0		-0.1	mA
h _{FE-1}	DC Current Gain	I _C = -8A; V _{CE} = -5V	20	80	
h _{FE-2}	DC Current Gain	Ic= -16A; VcE= -5V	8		

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