

ISC Silicon NPN Power Transistor

MJW21192

DESCRIPTION

- •DC Current Gain Specified up to 8.0 Amperes at Temperature
- High DC Current Gain h FE = 5(Min)@ I C = 8 Adc
- TO-3PN Package
- Complement to Type MJW21191
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

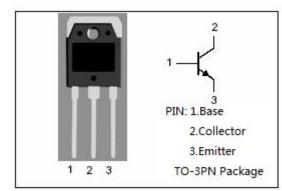
• Designed for power audio output,or high power drivers in audio amplifiers applications.

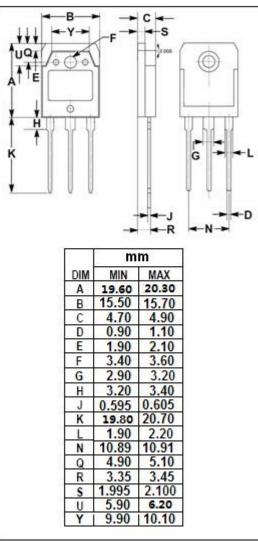
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	150	V
V_{CEO}	Collector-Emitter Voltage	150	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	8	Α
Ісм	Collector Current-Pulse	16	Α
lΒ	Base Current-Continuous	2	Α
Pc	Collector Power Dissipation @ T _C =25°C	100	W
TJ	Junction Temperature	150	$^{\circ}$
Tstg	Storage Temperature Range	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	0.65	°C/W
R _{th j-a}	R _{th j-a} Thermal Resistance, Junction to Ambient		°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 10mA ; I _B = 0	150			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.4A			1.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 1.6A			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 4A; V _{CE} = 2V			2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 150V; I _E = 0			10	μ А
I _{CEO}	Collector Cutoff Current	V _{CE} = 150V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μА
h _{FE-1}	DC Current Gain	I _C = 4A ; V _{CE} = 2V	15		100	
h _{FE-2}	DC Current Gain	I _C = 8A ; V _{CE} = 2V	5			
f⊤	Current-Gain—Bandwidth Product	I _E = 1A; V _{CE} = 10V	4			MHz

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