

isc Silicon NPN Power Transistors

NJW44H11G

DESCRIPTION

- With TO-3PN packaging
- Reliable performance at higher powers
- Accurate reproduction of Input signal
- Greater dynamic range
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

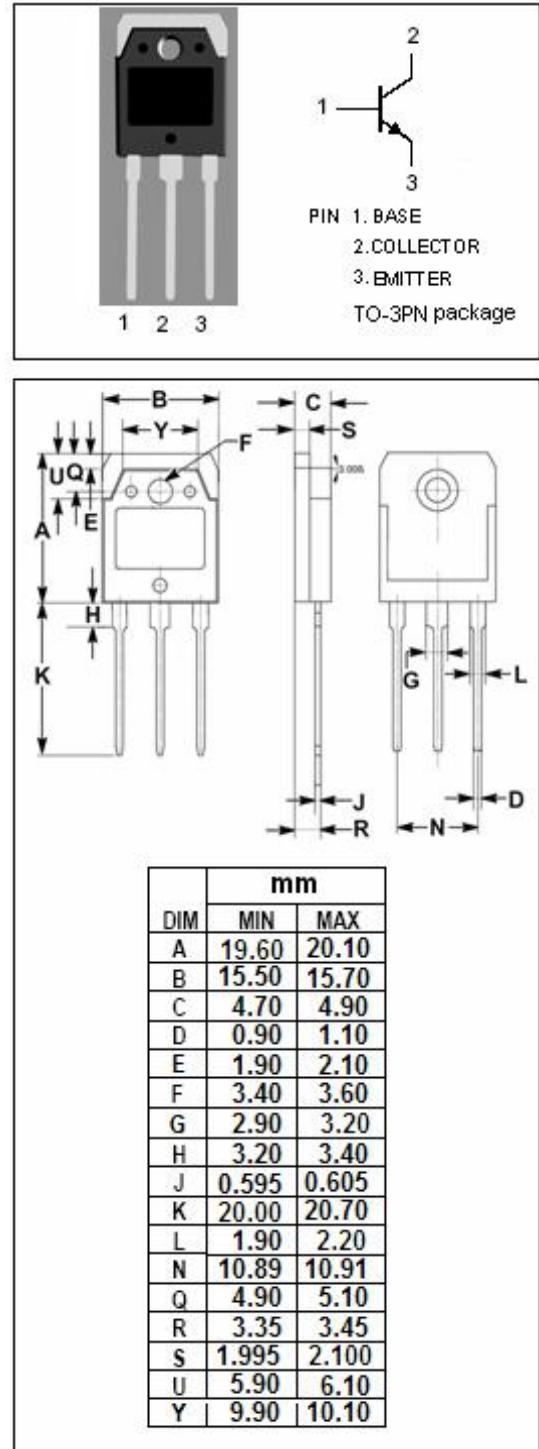
- Switching regulators
- High frequency inverters
- General purpose power amplifiers

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	80	V
V_{CEO}	Collector-Emitter Voltage	80	V
V_{EBO}	Emitter-Base Voltage	5	V
I_c	Collector Current-Continuous	10	A
I_{CM}	Collector Current-Peak	20	A
P_T	Total Power Dissipation @ $T_c=25^\circ\text{C}$	120	W
T_J	Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-65~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance,Junction to Case	1.04	°C/W



isc Silicon NPN Power Transistors**NJW44H11G****ELECTRICAL CHARACTERISTICS****T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(sus)}	Collector-Emitter Sustaining Voltage	I _C = 30mA; I _B = 0	80			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 0.4A			1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 8A; V _{CE} = 2V			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 80V			10	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 80V			10	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V			10	mA
h _{FE-1}	DC Current Gain	I _C = 2A; V _{CE} = 2V	100		400	
h _{FE-2}	DC Current Gain	I _C = 4A; V _{CE} = 2V	80		320	