

isc Silicon NPN Power Transistor

NJW0281

DESCRIPTION

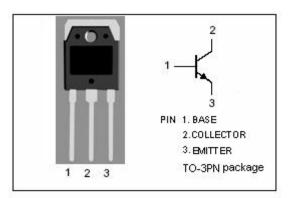
- High Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}=250V(Min)
- · Good Linearity of hFE
- Complement to Type NJW0302
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

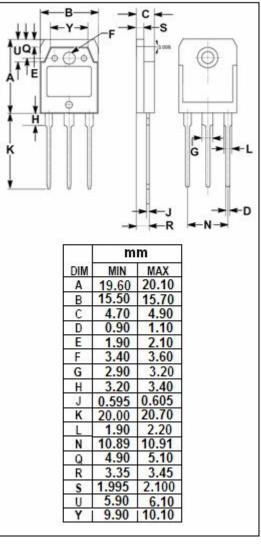


 Designed for high fidelity audio amplifier and other linear applications

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	
Ic	Collector Current-Continuous	15	А	
I _B	Base Current-Continuous	1.5	А	
Pc	Collector Power Dissipation @ T _C =25 ℃	150	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$ C	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I _C = 30mA ; I _B = 0	250			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5.0A; I _B = 0.5A			1.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	I _C = 5.0 A, V _{CE} = 5.0 V			1.2	V
Ісво	Collector Cutoff Current	V _{CB} = 250V ; I _E = 0			10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			5	μА
h _{FE}	DC Current Gain	I _C = 0.5A ; V _{CE} = 5V	75		150	
h _{FE1}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	75		150	
h _{FE2}	DC Current Gain	I _C = 3A ; V _{CE} = 5V	75		150	
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V;f _{test} = 1.0MHz			700	pF
f _T	Current-Gain—Bandwidth Product	I _C =-1A ; V _{CE} = 5V ;f _{test} = 1.0MHz	20			MHz

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