

isc Silicon PNP Power Transistor

BD214

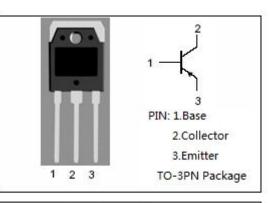
DESCRIPTION

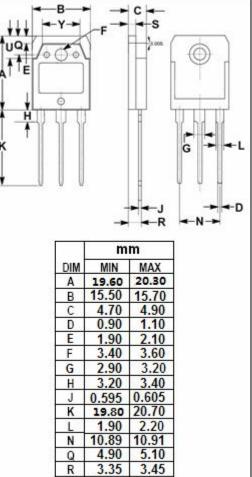
- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= -45V(Min)
- Good Linearity of h_{FE}
- Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Audio frequency power amplifier applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃) SYMBOL PARAMETER VALUE UNIT Collector-Base Voltage V Vсво -45 Collector-Emitter Voltage VCEO -45 V Emitter-Base Voltage VEBO -7 V Collector Current-Continuous lc -15 А **Base Current-Continuous** -3 А ΙB **Collector Power Dissipation** Pc 90 W @ Tc=25℃ ТJ **Junction Temperature** 150 °C Storage Temperature Range -55~150 °C Tstg





1.995

5.90

9.90

s

U

Y

2.100

6.20

10.10



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA ; I _B = 0	-45			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -5.0A; I _B = -0.5A			-0.5	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -10A; I _B = -1A			-1.0	V
$V_{\text{BE}(\text{on})}$	Base-Emitter On Voltage	I _C = -5A ; V _{CE} = -5V			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -45V ; I _E = 0			-100	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-100	μA
h _{FE-1}	DC Current Gain	I _C = -1A ; V _{CE} = -5V	55		160	
h _{FE-2}	DC Current Gain	I _C = -5A ; V _{CE} = -5V	30			
fī	Current-Gain—Bandwidth Product	I _C =-1A ; V _{CE} = -5V	3			MHz

NOTICE:

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