

isc Silicon NPN Power Transistors

BD550B

DESCRIPTION

High Power Dissipation

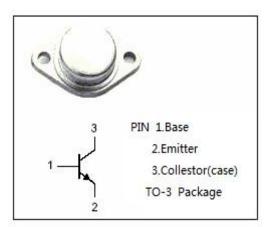
- Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 250V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

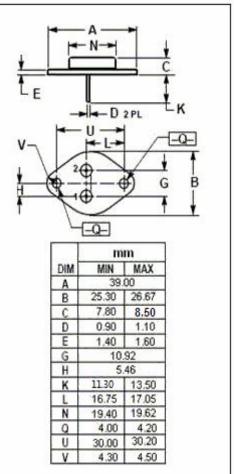
APPLICATIONS

• Designed for use as either driver or output unit applications in audio amplifier circuits.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	МАХ	UNIT
V _{CBO}	Collector-Base Voltage	275	V
Vcer	Collector-Emitter Voltage R _{BE} = 100 Ω	275	V
V _{CEO}	Collector-Emitter Voltage	250	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	7	A
I _B	Base Current-Continuous	2	A
Pc	Collector Power Dissipation @T _c =25°C	150	W
Tj	Junction Temperature	200	°C
T _{stg}	Storage Temperature Range	-65~200	°C







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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ; I _B = 0	250			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.25A			2	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 2A ; V _{CE} = 4V			2	V
I _{CER}	Collector Cutoff Current	V _{CE} = 250V; R _{BE} = 100 Ω			1	mA
ICEO	Collector Cutoff Current	V _{CE} = 200V; I _B = 0			5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1	mA
h _{FE}	DC Current Gain	I _C = 2A ; V _{CE} = 4V	10		50	
f⊤	Current Gain-Bandwidth Product	I _C = 0.2A ; V _{CE} = 10V		5		MHz

NOTICE:

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