

INCHANGE SEMICONDUCTOR

isc Silicon NPN Power Transistor

BDY62

DESCRIPTION

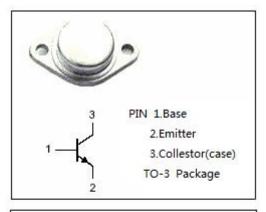
- Collector-Emitter Breakdown Voltage-
- : $V_{(BR)CEO}$ = 30V (Min)
- Low Collector-Emitter Saturation Voltage
- Excellent Safe Operating Area
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

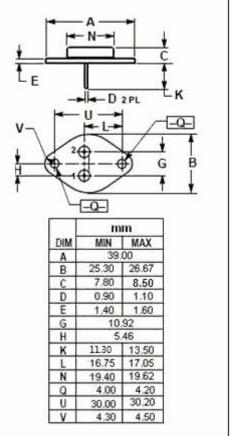
APPLICATIONS

Designed for power amplifier applications.

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	7	V
Ι _C	Collector Current-Continuous	5	А
I _{СМ}	Collector Current-Peak	8	A
IB	Base Current-Continuous	3	А
Pc	Collector Power Dissipation @Tc=25°C	50	w
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-65~150	°C

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)







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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	Ic= 10mA ; I _B = 0	30			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.4A			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	Ic= 1A ; V _{CE} = 5V			1.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = 60V ; I _E = 0			100	μA
Іево	Emitter Cutoff Current	V _{EB} = 5V ; I _C = 0			100	μA
h _{FE-1}	DC Current Gain	I _C = 1A ; V _{CE} = 2V	40		300	
h _{FE-2}	DC Current Gain	I _C = 4A ; V _{CE} = 2V	20			
fT	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V	30			MHz

NOTICE:

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