

isc Silicon NPN Power Transistor

BDY60

DESCRIPTION

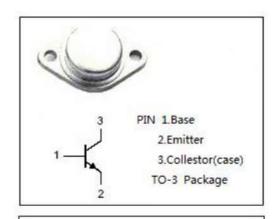
- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 60V (Min)
- · Low Collector-Emitter Saturation Voltage
- · Excellent Safe Operating Area
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

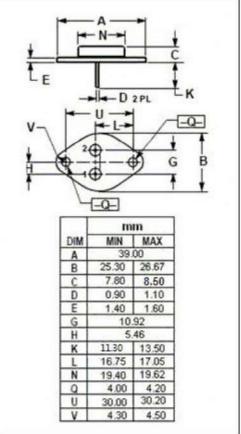
APPLICATIONS

Designed for power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	V	
V _{CBO}	Collector-Base Voltage	120		
Vceo	Collector-Emitter Voltage	60	V	
V _{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current-Continuous	5	Α	
Ісм	Collector Current-Peak	8	А	
I _B	Base Current-Continuous	3	Α	
Pc	Collector Power Dissipation @T _c =25℃	50	w	
TJ	Junction Temperature	150	℃	
Tstg	Storage Temperature	-65~150	°C	







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	Ic= 10mA; I _B = 0	60			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; VcE= 5V			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 120V ; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V ; I _C = 0			100	μА
h _{FE-1}	DC Current Gain	Ic= 1A; VcE= 2V	40		300	
h _{FE-2}	DC Current Gain	Ic= 4A; VcE= 2V	20			
fτ	Current-Gain—Bandwidth Product	Ic= 1A; VcE= 5V	30			MHz

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