

isc Silicon NPN Power Transistor

BDY61

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

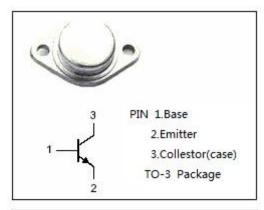


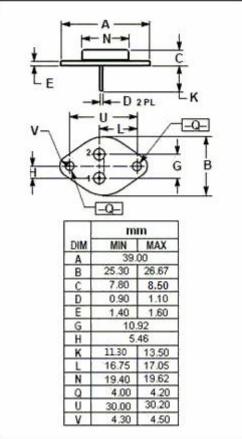
APPLICATIONS

· Designed for power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	60	V
V_{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	5	Α
I _{CM}	Collector Current-Peak	8	А
I _B	Base Current-Continuous	3	А
Pc	Collector Power Dissipation @T _C =25℃ 50		W
T_J	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature -65~150		${\mathbb C}$







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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	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	I _C = 1A; V _{CE} = 5V			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V ; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V ; I _C = 0			100	μА
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			
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V	30			MHz

NOTICE:

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