

isc Silicon NPN Power Transistor

BDX61

DESCRIPTION

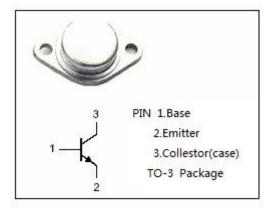
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 60V (Min)
- · High Current Capability
- · Wide area of safe operation
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

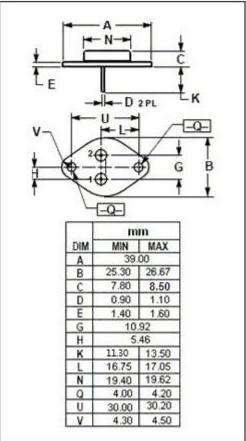
APPLICATIONS

• Designed for high power audio, disk head positioners and other linear applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	80	V	
Vceo	Collector-Emitter Voltage	60	V	
V_{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current-Continuous	20	А	
I _{CM}	Collector Current-Peak	30	А	
l _Β	Base Current-Continuous	5	А	
Pc	Collector Power Dissipation	150	W	
TJ	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-65~150	°C	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 1A			1.5	V
V _{CE} (sat)-2	Collector-Emitter Saturation Voltage	I _C = 20A; I _B = 2A			2.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =10A; I _B = 1A			2.0	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	Ic= 30mA; I _B = 0	60			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	7			V
h _{FE-1}	DC Current Gain	I _C =1A; V _{CE} = 5V	60			
h _{FE-2}	DC Current Gain	I _C =20A; V _{CE} = 5V	20		200	
I _{CBO}	Collector Cutoff Current	V _{CB} =80V ; I _E = 0			100	uA
ІЕВО	Emitter Cutoff Current	V _{EB} =6V; I _C = 0			100	uA
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V; f _{test} = 1.0MHz	3			MHz

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