

isc Silicon PNP Power Transistor

BD738

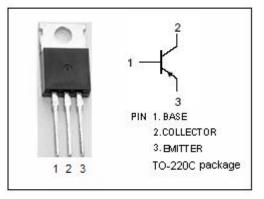
DESCRIPTION

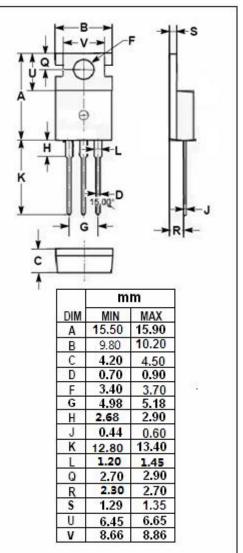
- DC Current Gain -
 - : h_{FE} = 40(Min.)@ I_C= -20mA
- Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -45V(Min.)
- Complement to Type BD737
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· Designed for amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{CBO}	Collector-Base Voltage	-45	V			
V _{CEO}	Collector-Emitter Voltage	-45	V			
V _{EBO}	Emitter-Base Voltage	-5	V			
Ic	Collector Current-Continuous	-4	А			
I _{CM}	Collector Current-Peak	-7	A			
I _B	Base Current-Continuous	-1	A			
Pc	Collector Power Dissipation @ Ta=25°C	2	W			
	Collector Power Dissipation @ $T_c=25^{\circ}C$	40				
TJ	Junction Temperature	150	°C			
T _{stg}	Storage Temperature Range	-55~150	°C			
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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-45		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -0.1mA; I _E = 0	-45		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 = -2A; I _B = -0.2A		-0.6	V
$V_{\text{BE(on)}}$	Base-Emitter On Voltage	I _C = -2A; V _{CE} = -1V		-1.1	V
Ices	Collector Cutoff Current	V _{CE} = -45V; V _{BE} = 0		-0.2	mA
h _{FE-1}	DC Current Gain	I _C = -20mA; V _{CE} = -4V	40		
h _{FE-2}	DC Current Gain	I _C = -2A; V _{CE} = -1V	40		

NOTICE:

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