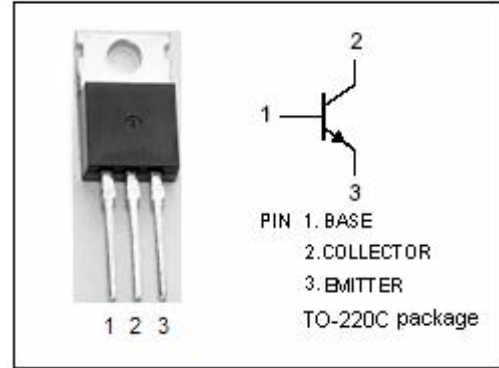


isc Silicon NPN Power Transistor
2SD1137
DESCRIPTION

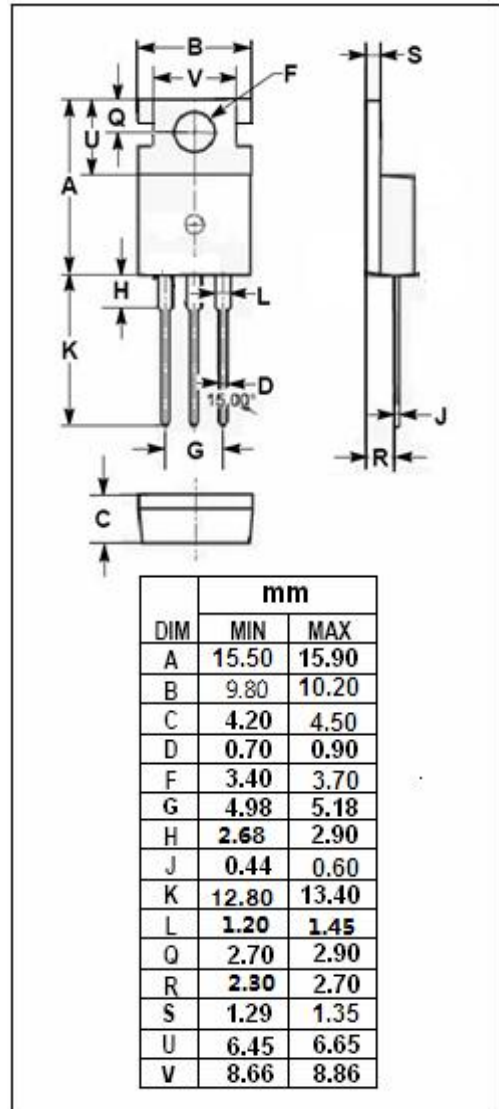
- High Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 100V$ (Min)
- Wide Area of Safe Operation
- Complement to Type 2SB860
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for low frequency power amplifier TV vertical deflection output applications


ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	100	V
V_{CEO}	Collector-Emitter Voltage	100	V
V_{EBO}	Emitter-Base Voltage	4	V
I_C	Collector Current-Continuous	4	A
I_{CM}	Collector Current-Peak	5	A
P_C	Collector Power Dissipation @ $T_a = 25^\circ C$	1.8	W
	Collector Power Dissipation @ $T_c = 25^\circ C$	40	
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-45~150	$^\circ C$



isc Silicon NPN Power Transistor

2SD1137

ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; R _{BE} = ∞	100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	4			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A			1.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 80V; R _{BE} = ∞			100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3.5V; I _C = 0			50	μ A
h _{FE-1}	DC Current Gain	I _C = 500mA; V _{CE} = 4V	50		250	
h _{FE-2}	DC Current Gain	I _C = 50mA; V _{CE} = 4V	25		350	

NOTICE:

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