

isc Silicon NPN Power Transistor
2SD1134
DESCRIPTION

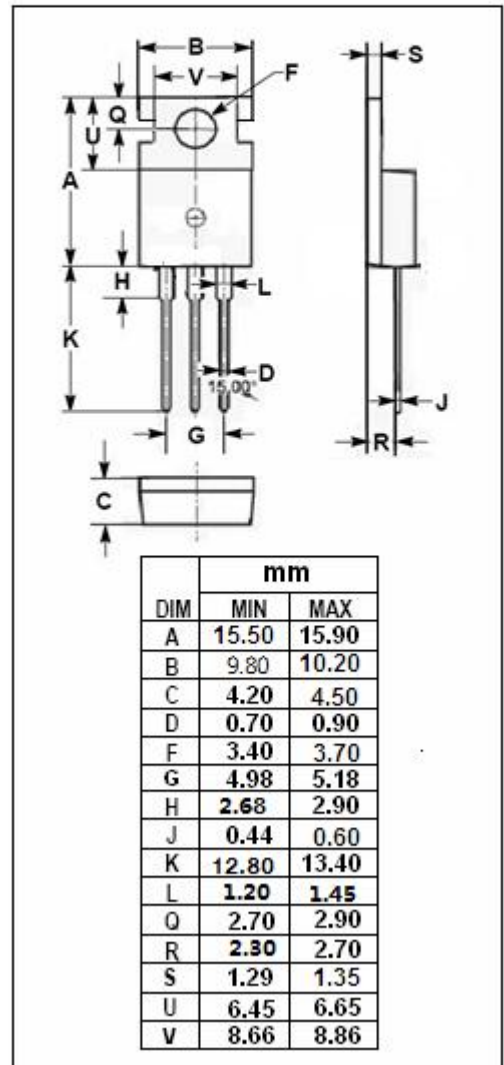
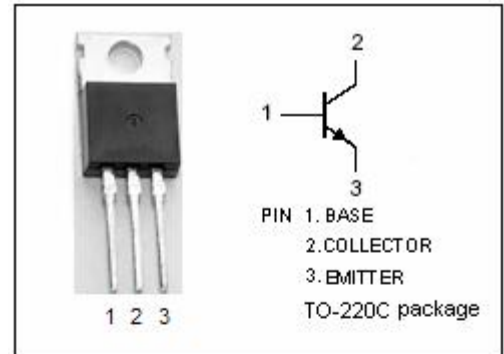
- Collector Current: $I_C = 4A$
- Low Collector Saturation Voltage
: $V_{CE(sat)} = 1.0V(Max) @ I_C = 2A$
- High Collector Power Dissipation
- Complement to Type 2SB858
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for low frequency power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	70	V
V_{CEO}	Collector-Emitter Voltage	60	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	4	A
I_{CM}	Collector Current-Peak	8	A
P_C	Total Power Dissipation @ $T_C = 25^\circ C$	40	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-45~150	$^\circ C$



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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} = ∞	60			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 10 μ A ; I _E = 0	70			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10 μ A ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A ; I _B = 0.2A			1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 1A ; V _{CE} = 4V			1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 50V ; I _E = 0			1	μ A
h _{FE-1}	DC Current Gain	I _C = 1A ; V _{CE} = 4V	60		320	
h _{FE-2}	DC Current Gain	I _C = 0.1A ; V _{CE} = 4V	35			
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 4V		7		MHz

◆ h_{FE-1} Classifications

B	C	D
60-120	100-200	160-320

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