

isc Silicon NPN Power Transistor
2SD855
DESCRIPTION

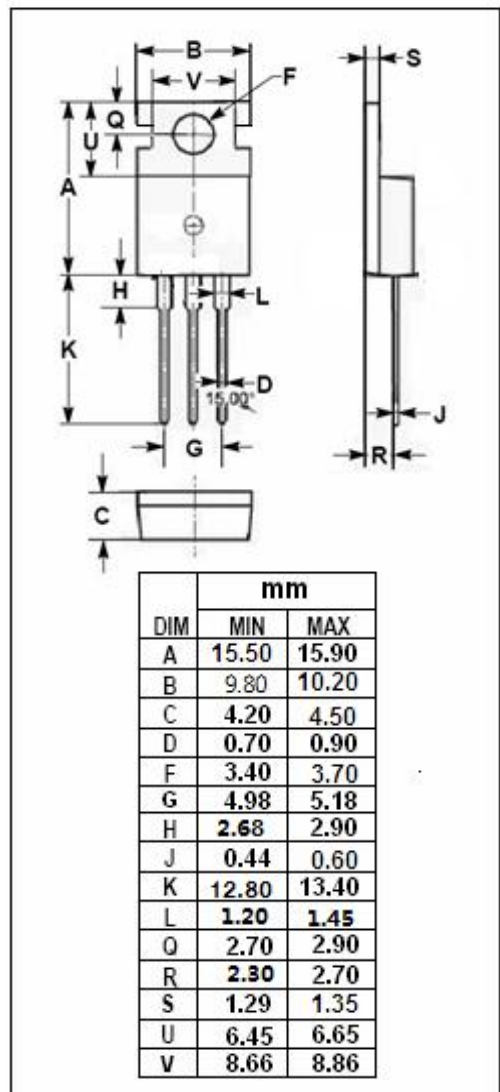
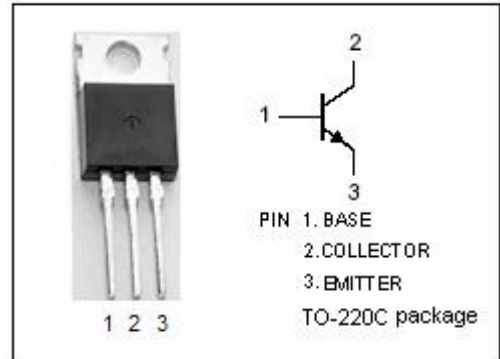
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 60V(\text{Min})$
- Good Linearity of h_{FE}
- Wide Area of Safe Operation
- Complement to Type 2SB760
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Medium power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	60	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	1	A
I_{CM}	Collector Current-Peak	2	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	30	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



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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; I _B = 0	60			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _c = 1A; I _B = 0.125A			1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _c = 1A; V _{CE} = 1V			1.3	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 60V; I _B = 0			300	μ A
I _{CES}	Collector Cutoff Current	V _{CE} = 80V; I _E = 0			200	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1	mA
h _{FE-1}	DC Current Gain	I _C = 0.2A; V _{CE} = 4V	40		450	
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 4V	15			

◆ h_{FE-1} Classifications

R	Q	P	O
40-90	70-150	120-250	200-450

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