

isc Silicon PNP Power Transistor
2SA815
DESCRIPTION

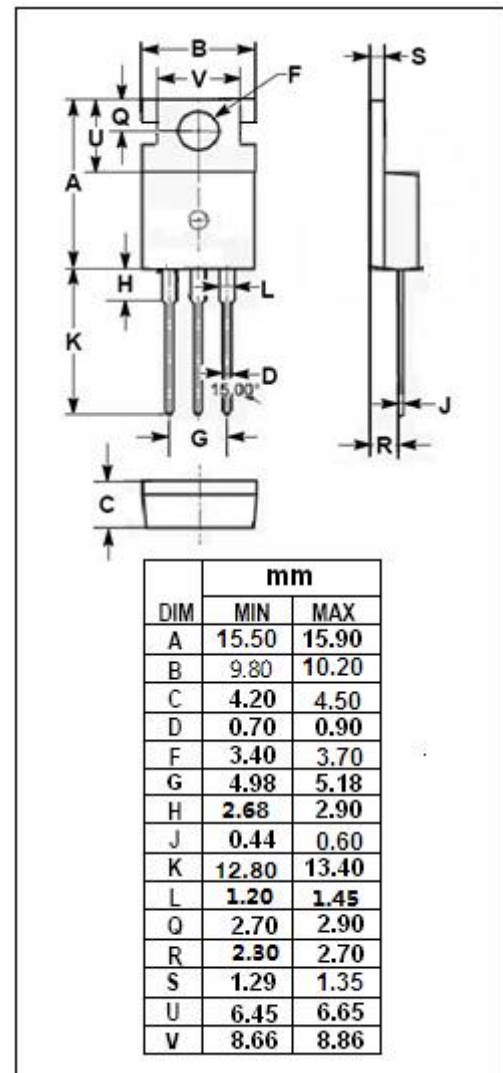
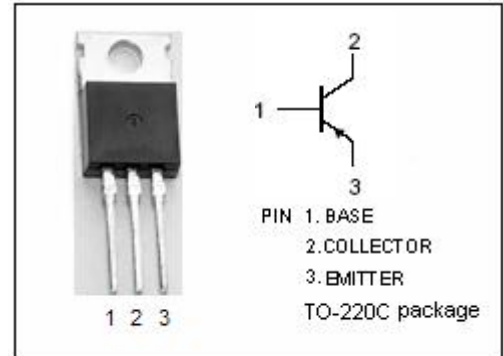
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -100(V)(Min.)$
- Complement to Type 2SC1625
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Medium power amplifier applications.
- Driver stage amplifier 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	-5	V
I_C	Collector Current-Continuous	-1	A
I_E	Emitter Current-Continuous	1	A
P_C	Total Power Dissipation @ $T_C = 25^\circ C$	15	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



isc Silicon PNP Power Transistor**2SA815****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	-100			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 = -0.5A; I _B = -50mA			-0.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -0.5A; V _{CE} = -5V			-1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -50V; I _E = 0			-1.0	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-1.0	μA
h _{FE-1}	DC Current Gain	I _C = -0.15A; V _{CE} = -5V	70		240	
h _{FE-2}	DC Current Gain	I _C = -0.5A; V _{CE} = -5V	40			
f _T	Current-Gain—Bandwidth Product	I _C = -0.15A; V _{CE} = -5V		30		MHz
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = -10V; f = 1MHz		30		pF

◆ **h_{FE-1} Classifications**

O	Y
70-140	120-240

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