

isc Silicon NPN Pow Transistor
2SC2655
DESCRIPTION

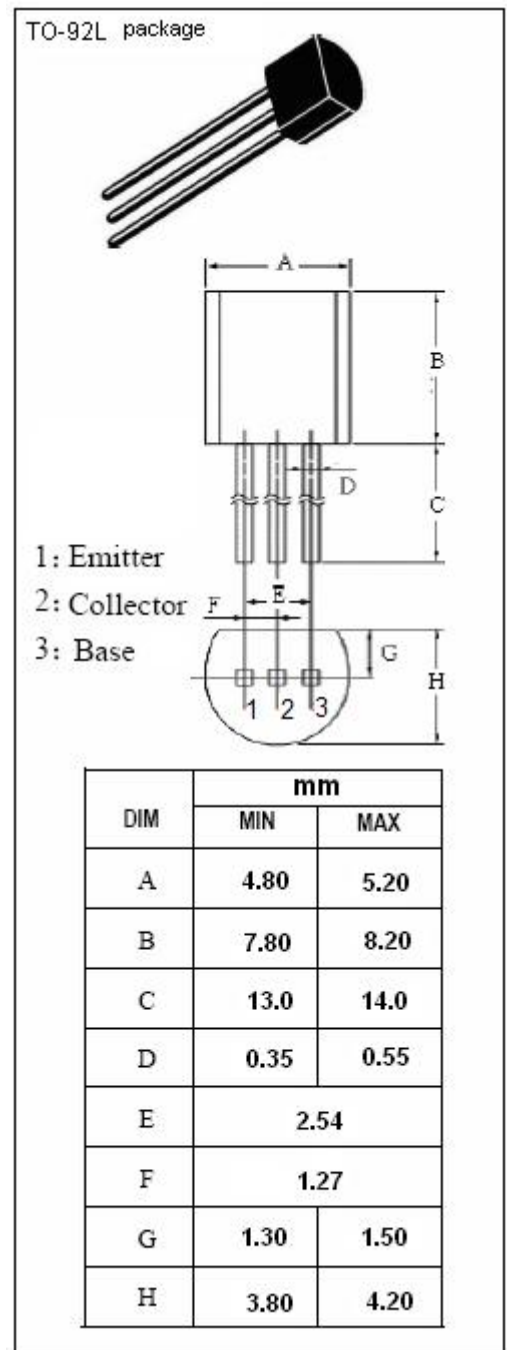
- Silicon NPN epitaxial type
- Low saturation voltage
- Complementary to 2SA1020
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power amplifier applications
- Power switching applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	50	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	2	A
P_C	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	0.9	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 _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A ; I _B = 50mA			0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1A ; I _B = 50mA			1.2	V
I _{CB0}	Collector Cutoff Current	V _{CB} = 50V; I _E = 0			1	μ A
h _{FE-1}	DC Current Gain	I _C = 0.5A ; V _{CE} = 2V	70		240	
h _{FE-2}	DC Current Gain	I _C = 1.5A ; V _{CE} = 2V	40			
f _T	Current-Gain—Bandwidth Product	I _C = 500mA ; V _{CE} = 2V		100		MHz

◆ h_{FE-1} Classifications

O	Y
70-120	120-140

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