

isc Silicon PNP Power Transistor**2SA614****DESCRIPTION**

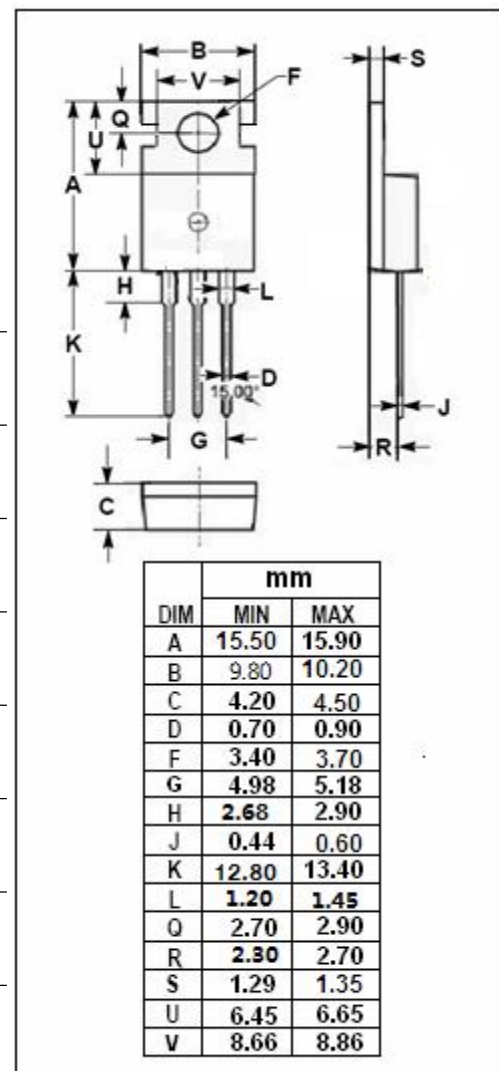
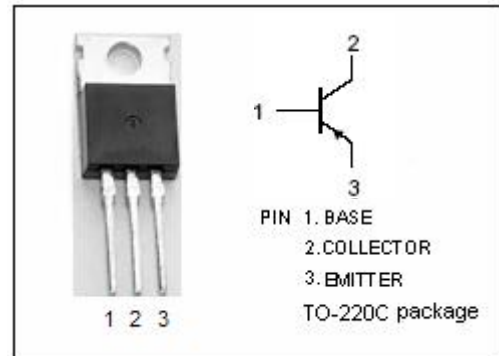
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -55V$ (Min.)
- Collector-Emitter Saturation Voltage-
: $V_{CE(sat)} = -0.5V$ (Max.) @ $I_C = -1A$
- Collector Power Dissipation-
: $P_C = 25W$ @ $T_C = 25^\circ C$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for medium power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-55	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-3	A
P_C	Collector Power Dissipation	25	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



isc Silicon PNP Power Transistor**2SA614****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	-55			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -500 μ A; I _E = 0	-80			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -500 μ A; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -0.1A			-0.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-50	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5; I _C = 0			-50	μ A
h _{FE}	DC Current Gain	I _C = -0.5A; V _{CE} = -5V	40		240	

◆ h_{FE} Classifications

R	O	Y
40-80	70-140	120-240

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