

isc Silicon PNP Power Transistor

2SA958

DESCRIPTION

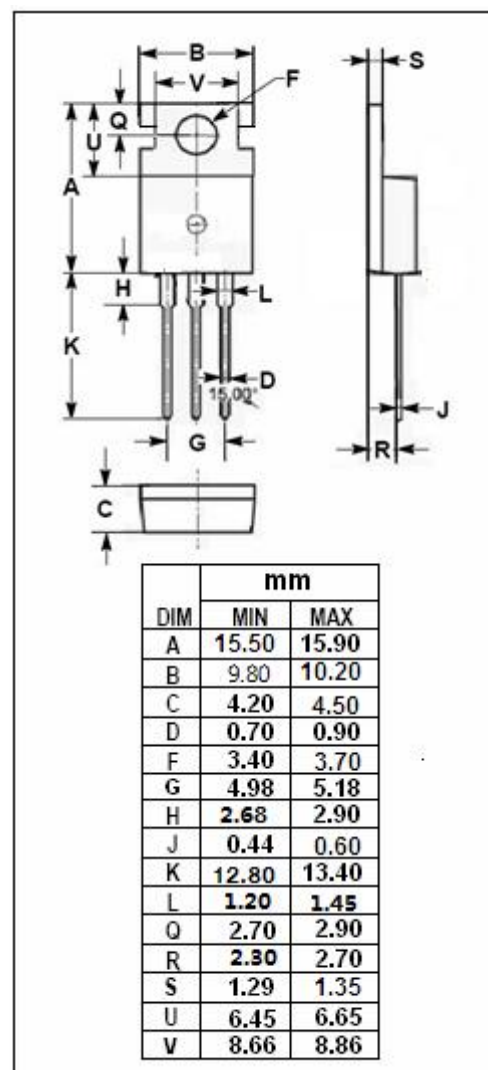
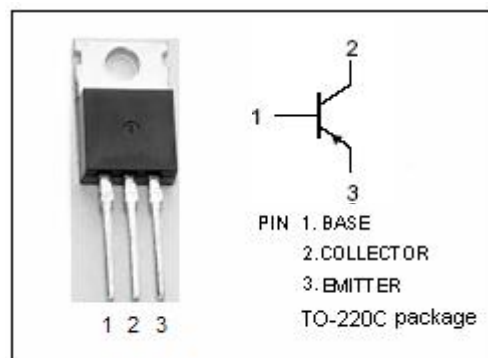
- Collector-Emitter Breakdown Voltage
: $V_{(BR)CEO} = -200V(\text{Min})$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for general purpose applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-200	V
V_{CEO}	Collector-Emitter Voltage	-200	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-2	A
I_B	Base Current-Continuous	-1	A
P_C	Total 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	$^{\circ}\text{C}$



isc Silicon PNP Power Transistor**2SA958****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 = -25mA; I _B = 0	-200			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -0.7A; I _B = -70mA			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -200V; I _E = 0			-100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C = 0			-1.0	mA
h _{FE}	DC Current Gain	I _C = -0.7A; V _{CE} = -10V	40			
f _T	Current-Gain—Bandwidth Product	I _E = 0.2A; V _{CE} = -12V		20		MHz

Switching times

t _r	Rise Time	I _C = -1A, R _L = 20 Ω, I _{B1} = -I _{B2} = -0.1A, V _{CC} = -20V		0.4		μ s
t _{stg}	Storage Time			1.5		μ s
t _f	Fall Time			0.5		μ s

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