

isc Silicon PNP Power Transistor**2SA738****DESCRIPTION**

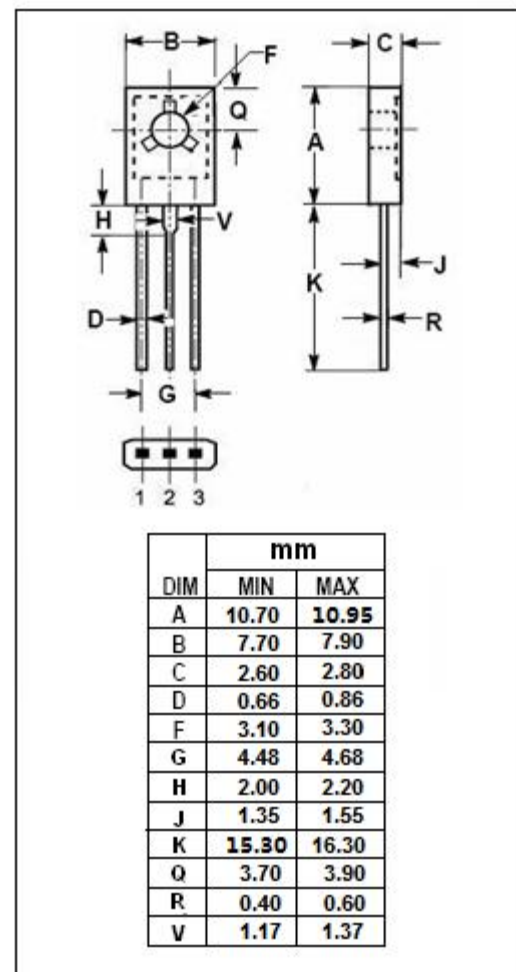
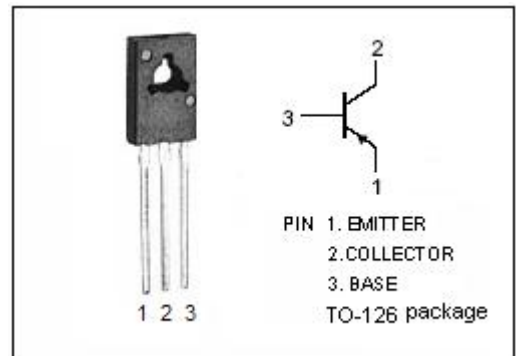
- Collector-Emitter Breakdown Voltage-
 $V_{(BR)CEO} = -25V$ (Min)
- Good Linearity of h_{FE}
- Complement to Type 2SC1368
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use as driver stages in high-fidelity amplifiers and TV circuits.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-25	V
V_{CEO}	Collector-Emitter Voltage	-25	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-2.5	A
I_{CM}	Collector Current-Peak	-3.0	A
P_C	Total Power Dissipation @ $T_C=25^\circ C$	8	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



isc Silicon PNP Power Transistor**2SA738****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	-25			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -500mA; I _B = -50mA			-0.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -500mA; V _{CE} = -2V			-1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -25V; I _E = 0			-1.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-1.0	μ A
h _{FE}	DC Current Gain	I _C = -500mA; V _{CE} = -2V	60		320	
f _T	Current-Gain—Bandwidth Product	I _C = -50mA; V _{CE} = -5V		160		MHz

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