

isc Silicon PNP Power Transistor

2SB986

DESCRIPTION

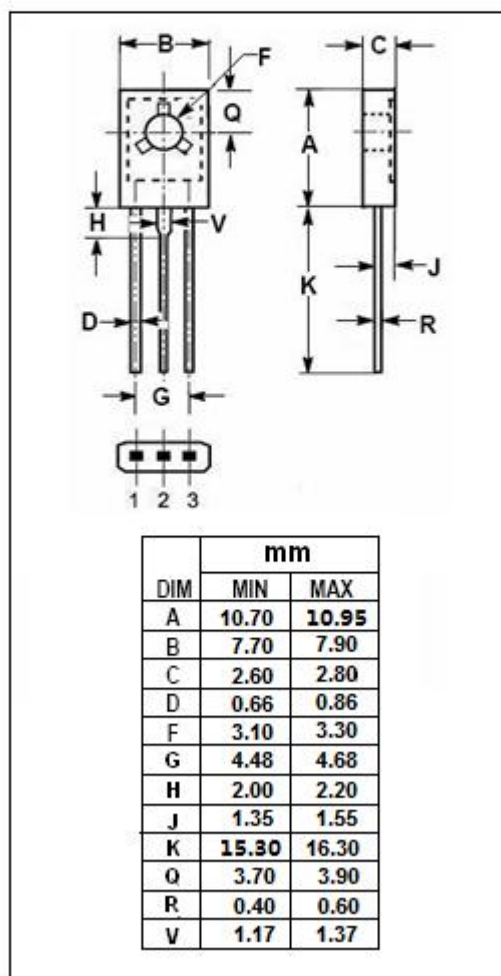
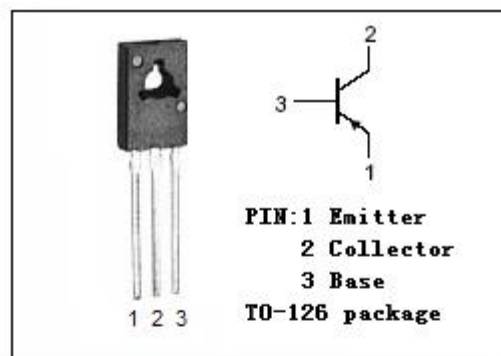
- High Collector Current- $I_C = -4.0A$
- Low Saturation Voltage -
: $V_{CE(sat)} = -0.5V(Max) @ I_C = -2A, I_B = -0.1A$
- Good Linearity of h_{FE}
- Complement to Type 2SD1348
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for power supplies, relay drivers, lamp drivers, electrical equipment applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-4	A
I_{CP}	Collector Current-Pulse	-6	A
P_C	Collector Power Dissipation @ $T_a = 25^\circ C$	1.2	W
	Collector Power Dissipation @ $T_c = 25^\circ C$	10	
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



isc Silicon PNP Power Transistor**2SB986****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -10 μA; I _E = 0	-60			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA; R _{BE} = ∞	-50			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -10 μA; I _C = 0	-6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2.0A; I _B = -0.1A			-0.7	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -2.0A; I _B = -0.1A			-1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -40V; I _E = 0			-1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-1.0	mA
h _{FE-1}	DC Current Gain	I _C = -0.1A; V _{CE} = -2V	100		560	
h _{FE-2}	DC Current Gain	I _C = -3A; V _{CE} = -2V	40			

◆ h_{FE-1} Classifications

R	S	T	U
100-200	140-280	200-400	280-560

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