

isc Silicon PNP Power Transistor

2SB986

DESCRIPTION

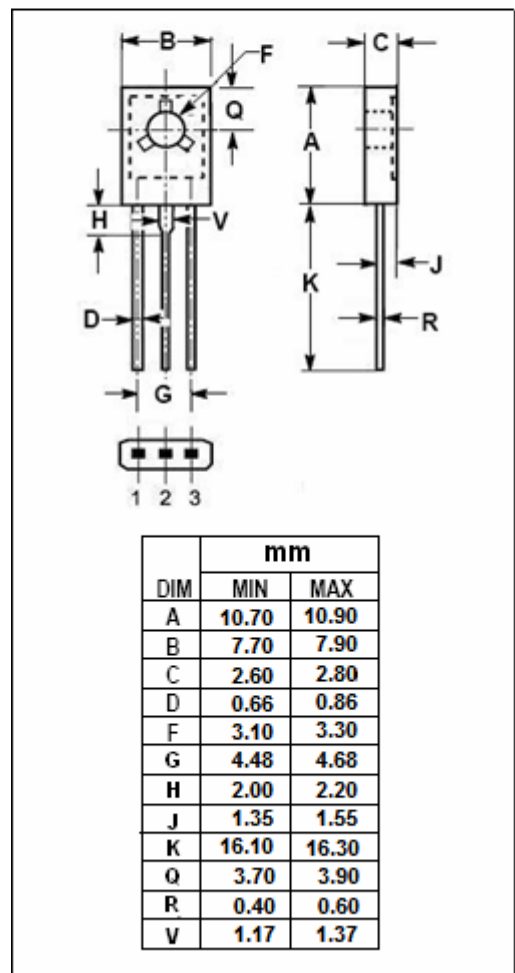
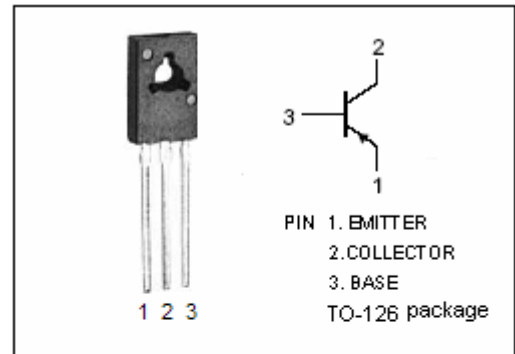
- High Collector Current- $I_C = -4.0A$
- Low Saturation Voltage -
: $V_{CE(sat)} = -0.5V(Max) @ I_C = -2A, I_B = -0.1A$
- Good Linearity of h_{FE}
- Complement to Type 2SD1348

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** $T_C=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C = -10\ \mu\text{A}$; $I_E = 0$	-60			V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -1\text{mA}$; $R_{BE} = \infty$	-50			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E = -10\ \mu\text{A}$; $I_C = 0$	-6			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -2.0\text{A}$; $I_B = -0.1\text{A}$			-0.7	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -2.0\text{A}$; $I_B = -0.1\text{A}$			-1.2	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -40\text{V}$; $I_E = 0$			-1.0	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -4\text{V}$; $I_C = 0$			-1.0	mA
h_{FE-1}	DC Current Gain	$I_C = -0.1\text{A}$; $V_{CE} = -2\text{V}$	100		560	
h_{FE-2}	DC Current Gain	$I_C = -3\text{A}$; $V_{CE} = -2\text{V}$	40			
f_T	Current-Gain—Bandwidth Product	$I_C = -50\text{mA}$; $V_{CE} = -10\text{V}$		150		MHz
C_{OB}	Output Capacitance	$I_E = 0$; $V_{CB} = -10\text{V}$, $f_{test} = 1\text{MHz}$		39		pF

◆ **h_{FE-1} Classifications**

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