

isc Silicon PNP Power Transistor

2SB986

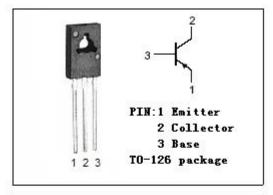
DESCRIPTION

- 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



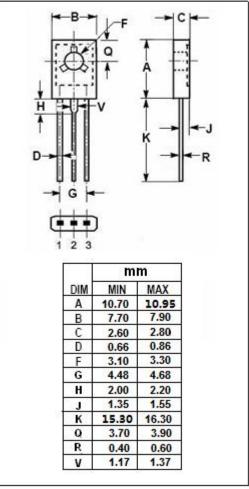
APPLICATIONS

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



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	-60	V	
Vceo	Collector-Emitter Voltage	-50	V	
V _{EBO}	Emitter-Base Voltage	-6	V	
Ic	Collector Current-Continuous	-4	Α	
Іср	Collector Current-Pulse	-6	Α	
P _C	Collector Power Dissipation @ T _a =25°C	1.2	W	
	Collector Power Dissipation @ T _C =25 °C	10		
TJ	Junction Temperature	150		
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$ C	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	ollector-Base Breakdown Voltage				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 μ A; I _C = 0				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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