

isc Silicon PNP Power Transistor

2SB946A

DESCRIPTION

- Low Collector Saturation Voltage : V_{CE(sat)}= -0.5V(Max)@I_C= -5A
- · Good Linearity of hFE
- Large Collector Current Ic
- Complement to Type 2SD1271A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

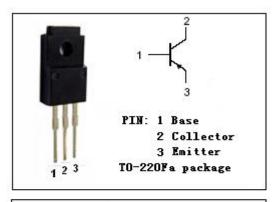


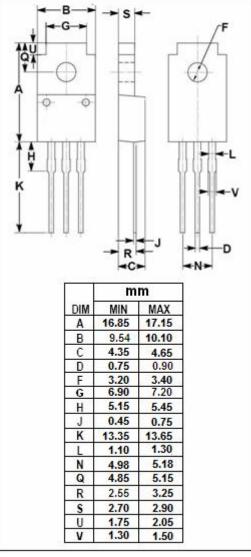
APPLICATIONS

· Designed for power switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-150	V	
V _{CEO}	Collector-Emitter Voltage	-100	V	
V _{EBO}	Emitter-Base Voltage	-7	V	
Ic	Collector Current-Continuous	-7	А	
Ісм	Collector Current-Peak	-15	А	
Pc	Collector Power Dissipation @ T _a =25℃	2	W	
	Collector Power Dissipation @ T _C =25 °C	40		
TJ	Junction Temperature		$^{\circ}\!\mathbb{C}$	
T _{stg}	Storage Temperature Range		°C	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA; I _B = 0	-100			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.25A			-0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -5A; I _B = -0.25A			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V ; I _E = 0			-10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V ; I _C =0			-50	μА
h _{FE-1}	DC Current Gain	I _C = -0.1A; V _{CE} = -2V	45			
h _{FE-2}	DC Current Gain	I _C = -3A ; V _{CE} = -2V	60		260	

♦ h_{FE-2} Classifications

R	Q	Р
60-120	90-180	130-260

NOTICE:

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