

isc Silicon PNP Darlington Power Transistor

2SB1100

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -100V(Min)
- · High DC Current Gain-
- : h_{FE}= 1000(Min)@ I_C= -10A
- Complement to Type 2SD1591
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

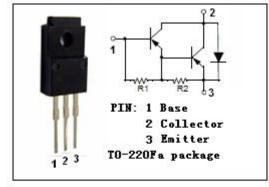


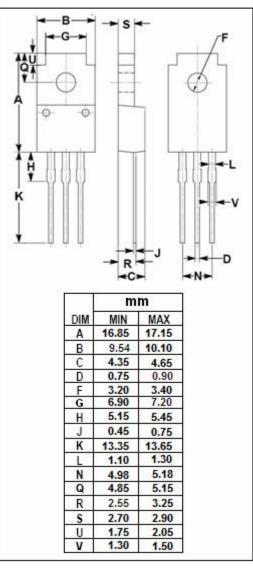
APPLICATIONS

 Designed for audio frequency power amplifier and low speed high current switching industrial use.



SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-100	V	
Vceo	Collector-Emitter Voltage	-100	V	
V _{EBO}	Emitter-Base Voltage	-8	V	
Ic	Collector Current-Continuous	-10	Α	
Ісм	Collector Current-Pulse	-20	Α	
I _B	Base Current-Continuous	-1	Α	
P _C	Collector Power Dissipation @T _a =25°C	2	W	
	Collector Power Dissipation @Tc=25°C	30		
TJ	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -10A; I _B = -25mA			-1.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -10A; I _B = -25mA			-2.0	V
Ісво	Collector Cutoff Current	V _{CB} = -100V ; I _E = 0			-10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-3	mA
h _{FE}	DC Current Gain	I _C = -10A; V _{CE} = -2V	1000		30000	

♦ h_{FE} Classifications

М	L	K	J
1000-3000	2000-5000	4000-10000	8000-30000

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