

isc Silicon PNP Power Transistor

2SB686

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -100V(Min)
- Good Linearity of h_{FE}
- Complement to Type 2SD716
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



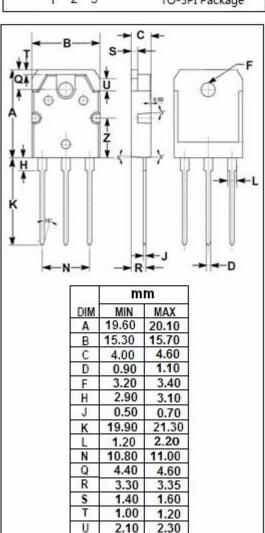
1 2 3 PIN: 1.Base 2.Collector 3.Emitter TO-3PI Package

APPLICATIONS

- · Power amplifier applications
- Recommend for 30~35W high-fidelity audio frequency amplifier output stage.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER VALUE		UNIT	
V _{CBO}	Collector-Base Voltage	-100	V	
V _{CEO}	Collector-Emitter Voltage -100		V	
V _{EBO}	Emitter-Base Voltage -5		V	
Ic	Collector Current-Continuous	-6	А	
Pc	Collector Power Dissipation @ T _C =25℃	60	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	°C	



7.90



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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 = -50mA; I _B = 0	-100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -10mA; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-2.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	I _C = -4A; V _{CE} = -5V			-1.5	V
Ісво	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-10	μА
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -5V	55		160	

h_{FE} Classifications

R	0
55-110	80-160

NOTICE:

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