

isc Silicon PNP Power Transistors

2SB645

DESCRIPTION

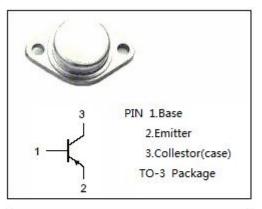
- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= -200V(Min)
- High Power Dissipation-
- : P_C= 150W(Max)@T_C=25℃
- Complement to Type 2SD665
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

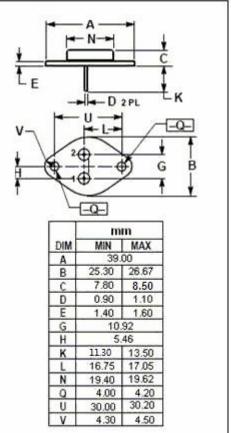
APPLICATIONS

- Designed for power amplifier applications.
- Recommended for 200W high-fidelity audio frequency amplifier output stage.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-200	V
V _{CEO}	Collector-Emitter Voltage	-200	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current-Continuous	-15	А
IE	Emitter Current-Continuous	15	A
Pc	Collector Power Dissipation @Tc=25℃	150	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-65~150	°C







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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -0.1A; I _B = 0	-200			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 = -5A; I _B = -0.5A			-2.0	V
V _{BE(on)}	Base-Emitter On Voltage	Ic= -5A; Vce= -5V			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-0.1	mA
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -5V	40		140	
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		450		pF
f⊤	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -10V		12		MHz

h_{FE} Classifications

R	0	
40-80	70-140	

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