

isc Silicon PNP Power Transistors

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= -50V(Min)
- · High Power Dissipation-
- : P_C= 25W(Max)@T_C=25°C
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

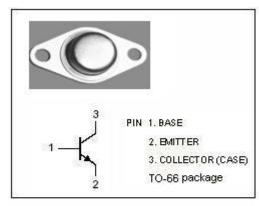


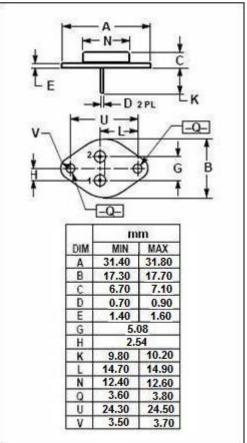
APPLICATIONS

 Designed for audio power amplifier and regulator applications.



SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	-70	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-8	V
Ic	Collector Current-Continuous	-3	Α
Pc	Collector Power Dissipation @T _a =25℃	1.5 W	
	Collector Power Dissipation @Tc=25°C	25	VV
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-65~150	$^{\circ}$







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2SB503

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-50			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I _C = -0.1mA; I _E = 0	-70			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-8			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.3A			-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -3A; I _B = -0.3A			-1.8	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -50V; I _E = 0			-10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -8V; I _C = 0			-100	μА
h _{FE-1}	DC Current Gain	I _C = -0.5A; V _{CE} = -5V	30		280	
h _{FE-2}	DC Current Gain	Ic= -2.5A; V _{CE} = -5V	15			

♦ h_{FE} Classifications

R	0	Y
30-70	50-140	100-280

NOTICE:

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