

isc Silicon PNP Power Transistors

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -80V(Min)
- · High Power Dissipation-
 - : P_C= 25W(Max)@T_C=25°C
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



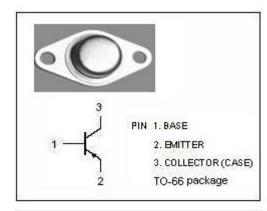
APPLICATIONS

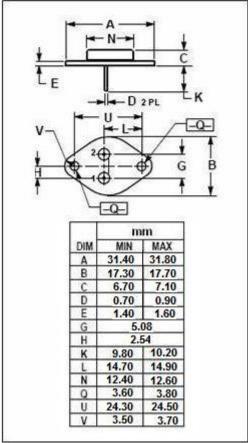
· Designed for audio power amplifier and regulator applications.



ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-110	V	
V _{CEO}	Collector-Emitter Voltage	-80	V	
V _{EBO}	Emitter-Base Voltage	-8	V	
lc	Collector Current-Continuous	-3	Α	
I _E	Emitter Current-Continuous	3	Α	
Pc	Collector Power Dissipation @T _a =25℃	1.5	w	
	Collector Power Dissipation @T _C =25°C	25		
TJ	Junction Temperature		$^{\circ}$ C	
T _{stg}	Storage Temperature	-65~150	$^{\circ}$	







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2SB502

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -0.1A; I _B = 0	-80			V	
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -2mA; I _E = 0	-110			V	
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -10mA; 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	
Ісво	Collector Cutoff Current	V _{CB} = -50V; I _E = 0			-10	μA	
I _{EBO}	Emitter Cutoff Current	V _{EB} = -8V; I _C = 0			-100	μ А	
h _{FE-1}	DC Current Gain	I _C = -0.5A; V _{CE} = -5V	30		280		
h _{FE-2}	DC Current Gain	I _C = -2.5A; V _{CE} = -5V	15				

h_{FE} Classifications

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

NOTICE:

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