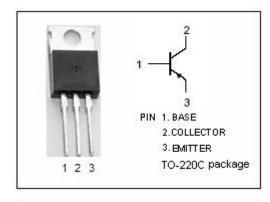


isc Silicon PNP Power Transistor

2SB512

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= -60V(Min)
- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= -1.0V(Max) @I_C= -2.0A
- Complement to Type 2SD365
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

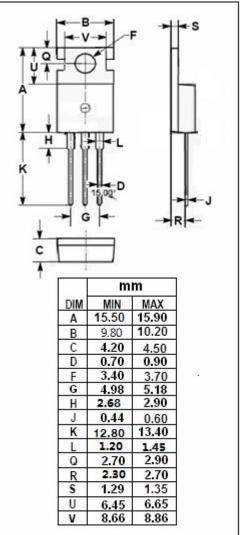


APPLICATIONS

• Designed for low frequency power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-60	V	
Vceo	Collector-Emitter Voltage	-60	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
Ic	Collector Current-Continuous	-3	А	
Pc	Collector Power Dissipation @ T _C =25℃	25	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$	





isc Silicon PNP Power Transistor

2SB512

ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	Ic= -10mA; I _B = 0	-60			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1mA; I _E = 0	-60			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	5			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-1.0	V
V _{BE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-1.5	V
Ісво	Collector Cutoff Current	V _{CB} = -40V; I _E = 0			-1.0	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-1.0	μА
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -3V	30		160	
f _T	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -5V	3			MHz

NOTICE:

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