

isc Silicon NPN Power Transistor

DESCRIPTION

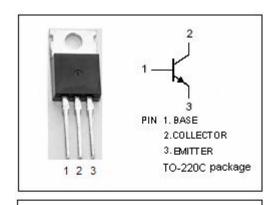
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 35V(Min)
- · Low Collector-Emitter Saturation Voltage-
 - : V_{CE(sat)}= 1.0V(Max) @I_C= 1.5A
- · Complement to Type 2SB511
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

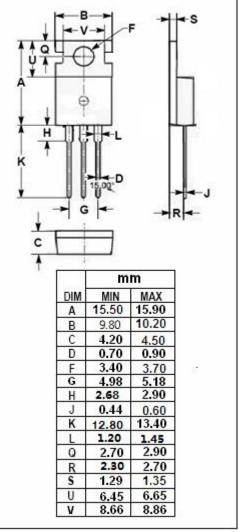


- Designed for low frequency power amplifier applications.
- Recommended for 5 watts AF power amplifier output use.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	35	V	
V _{CEO}	Collector-Emitter Voltage	35	V	
V _{ЕВО}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	Α		
I _{CM}	Collector Current-Peak	Α		
Pc	Collector Power Dissipation @ T _a =25℃	1.75	W	
	Collector Power Dissipation @ T _C =25℃	10		
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range -55~150		${\mathbb C}$	







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2SD325

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.5A; I _B = 0.15A			1.0	V	
V _{BE(on)}	Base-Emitter On Voltage	I _C = 1A; V _{CE} = 5V			1.5	V	
Ісво	Collector Cutoff Current	V _{CB} = 20V; I _E = 0			100	μА	
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			1.0	mA	
h _{FE-1}	DC Current Gain	Ic= 1A; V _{CE} = 2V	40		320		
h _{FE-2}	DC Current Gain	I _C = 0.1A ; V _{CE} = 2V	35				
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 5V		8		MHz	

♦ h_{FE-1} Classifications

С	D	E	F
40-80	60-120	100-200	160-320

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