

isc Silicon NPN Power Transistor

2SD2021

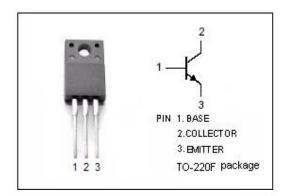
DESCRIPTION

- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 150V (Min)
- · Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

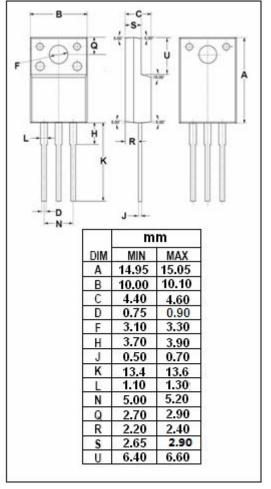


 Designed for low frequency power amplifier TV vertical deflection output applications



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	150	V	
V _{CEO}	Collector-Emitter Voltage	150	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current-Continuous	2	А	
I _{CM}	Collector Current-Peak	5	Α	
P _C	Collector Power Dissipation @ T _a =25°C	2		
	Collector Power Dissipation @ T _C =25℃	30	W	
TJ	Junction Temperature	150	${\mathbb C}$	
T _{stg}	Storage Temperature Range	-45~150	°C	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; R _{BE} = ∞	150			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 5mA; I _C = 0	6			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 0.5A; I _B = 0.05A			3.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 50mA ; V _{CE} = 5V			1.0	V
I _{CBO}	Collector Cutoff Current	V _{CE} = 150V; I _E = 0			10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μА
h _{FE-1}	DC Current Gain	I _C = 50mA; V _{CE} = 5V	100		320	
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 5V	60			
Сов	Output Capacitance	I _E = 0; V _{CB} = 100V; f _{test} = 1.0MHz		20		pF

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