



isc Silicon NPN Power Transistor

DESCRIPTION

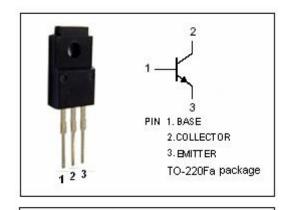
- · High Power Dissipation
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 150V(Min.)
- Complement to Type 2SB1192
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

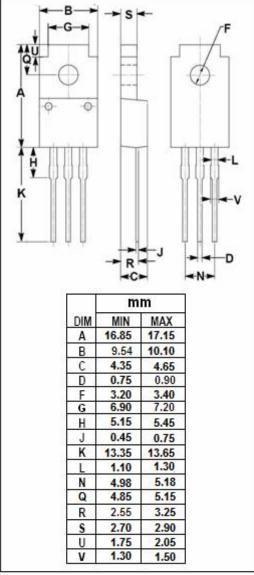
APPLICATIONS

- · Power amplifier applications.
- TV vertical deflection output applications.



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	200	V
V _{CEO}	Collector-Emitter Voltage	150	V
V _{EBO}	Emitter-Base Voltage	V	
Ic	Collector Current-Continuous	Α	
I _{CM}	Collector Current-Peak	Α	
P _C	Total Power Dissipation @ T _C =25℃	25	W
	Total Power Dissipation @ T _a =25℃	2	vv
TJ	Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature Range -55~150		$^{\circ}\mathbb{C}$







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2SD1772

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 5mA; I _B = 0	150			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 0.1mA; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 0.5A; I _B = 50mA			1.0	V
V _{BE(on)}	Base-Emitter On Voltage	Ic= 0.3A; Vc= 10V			1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 200V; I _E = 0			50	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			50	μ A
h _{FE-1}	DC Current Gain	I _C = 0.1A; V _{CE} = 10V	60		240	
h _{FE-2}	DC Current Gain	I _C = 0.3A; V _{CE} = 10V	50			
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 10V		20		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} =1MHz		27		pF

♦ h_{FE-1} Classifications

Q	Р		
60-140	100-240		

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