

isc Silicon NPN Power Transistor

2SD200

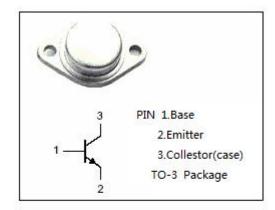
DESCRIPTION

- · High Collector-Base Breakdown Voltage-
 - : V_{(BR)CBO}= 1500V (Min.)
- · Low Collector Saturation Voltage-
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



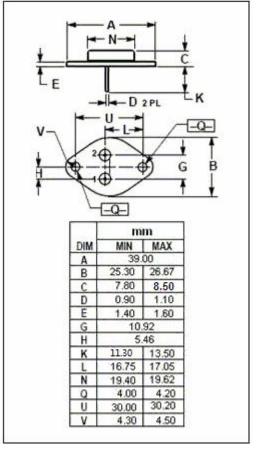
APPLICATIONS

• Designed for color TV horizontal output applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MAX	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	600	٧
V _{EBO}	Emitter-Base Voltage	5	٧
Ic	Collector Current-Continuous	2.5	Α
lE	Emitter Current-Continuous	2.5	Α
P _C	Collector Power Dissipation @T _C =25°C	50	W
Tj	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.6A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.6A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 1000V; I _E = 0			10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	mA
h _{FE}	DC Current Gain	Ic= 0.5A; VcE= 5V	8		30	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1.0MHz		95		pF
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 10V		3		MHz
t _f	Fall Time	I _{CP} = 2A; I _{B1(end)} = 0.6A		0.7		μ S

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