

isc Silicon NPN Power Transistor

DESCRIPTION

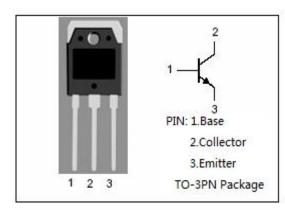
- · High Breakdown Voltage-
 - : V_{CBO}= 1500V (Min)
- · High Switching Speed
- · High Reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

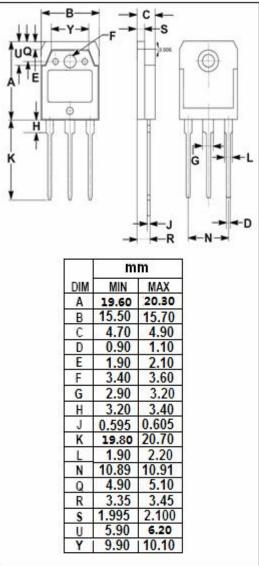
APPLICATIONS

- · Color TV horizontal deflection output
- · Color display horizontal deflection output

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
Vсво	Collector-Base Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current- Continuous	5	А
Icp	Collector Current-Pulse	16	Α
Pc	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	100	W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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2SD1677

ELECTRICAL CHARACTERISTICS

 T_C =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 10mA; I _B = 0	800			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 4.5A; I _B = 2A			5.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 4.5A; I _B = 2A			1.5	V
І _{СВО}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	μА
I _{CES}	Collector Cutoff Current	V _{CE} = 1500V ; R _{BE} = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V ; I _C = 0			1.0	mA
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	8			
t _f	Fall Time	I _C = 4A , I _{B1} = 0.8A ; I _{B2} = 1.6A P _W =20 μ s; Duty Cycle ≤1%			0.5	μS

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