

isc Silicon NPN Power Transistor

2SD1886

DESCRIPTION

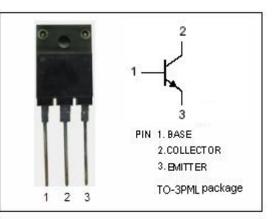
- High Breakdown Voltage-
 - : V_{CBO}= 1500V (Min)
- High Speed Switching
- High Reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

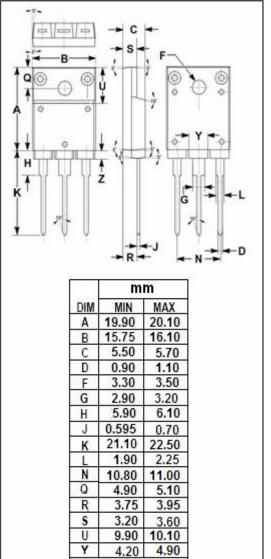
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25 °C)

SYMBOL	PARAMETER	VALUE	UNIT
Vсво	Collector-Base Voltage	1500	v
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	6	V
Ιc	Collector Current- Continuous	8	A
I _{CP}	Collector Current-Pulse	30	A
Pc	Collector Power Dissipation @ $T_c=25^{\circ}C$	70	W
TJ	Junction Temperature	150	°C
Tstg	Storage Temperature Range	-55~150	°C





1.90

2.10

isc website: <u>www.iscsemi.com</u>

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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	800			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			1.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	μA
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-1}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	8			
h _{FE-2}	DC Current Gain	I _C = 6A ; V _{CE} = 5V	5		10	
t _f	Fall Time	Ic= 6A , I _{B1} = 1.2A ; I _{B2} = -2.4A P _W =20 µ s; Duty Cycle≤1%			0.3	μ S

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