

isc Silicon NPN Power Transistor

2SD1880

DESCRIPTION

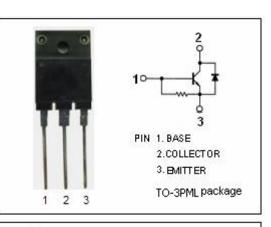
- High Breakdown Voltage-
 - : V_{CBO}= 1300V (Min)
- High Switching Speed
- High Reliability
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

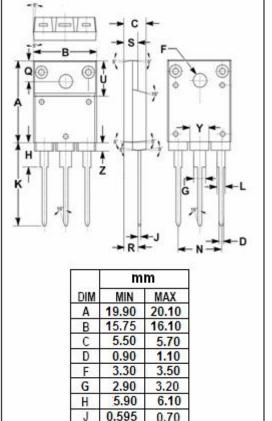
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	V					
V _{CEO}	Collector-Emitter Voltage	V					
V _{EBO}	Emitter-Base Voltage	6	V				
lc	Collector Current- Continuous 8		А				
Іср	Collector Current-Pulse	30	A				
Pc	Collector Power Dissipation @ T _c =25°C	70	W				
TJ	Junction Temperature	150	Ĉ				
T _{stg}	Storage Temperature Range	-55~150	Ĉ				
		1					







R	3.75	3.9
S	3.20	3.6
U	9.90	10.1
Y	4.20	4.9
Ζ	1.90	2.1

21.10

1.90

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22.50

2.25

isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

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
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	μA
ICES	Collector Cutoff Current	V _{CE} = 1300V ; R _{BE} = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V ; I _C = 0	40		130	mA
h _{FE-1}	DC Current Gain	Ic= 1A ; V _{CE} = 5V	8			
h _{FE-2}	DC Current Gain	I _C = 6A ; V _{CE} = 5V	5		10	
V _{ECF}	C-E Diode Forward Voltage	I _F = 8A			2.0	V
tŗ	Fall Time	I _C = 6A , I _{B1} = 1.2A ; I _{B2} = -2.4A P _W =20 μ s; Duty Cycle≤1%			0.3	μS

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