

isc Silicon NPN Power Transistor

2SD1885C

DESCRIPTION

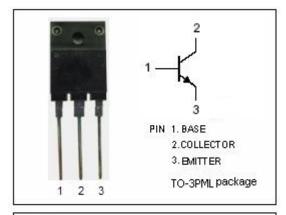
- · High Breakdown Voltage-
 - : V_{CBO}= 1500V (Min)
- · High Switching Speed
- · High Reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

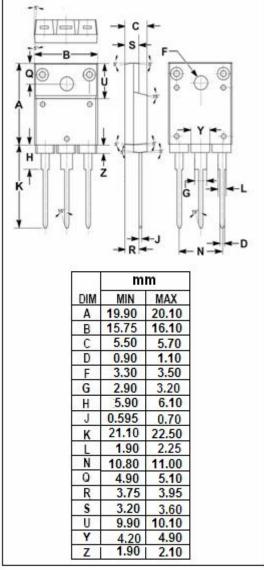
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	1500	V	
V _{CEO}	Collector-Emitter Voltage	700	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current- Continuous	6	А	
Іср	Collector Current-Pulse	20	А	
P _C	Collector Power Dissipation @ T_C =25 $^{\circ}C$	65	W	
TJ	Junction Temperature	150	$^{\circ}$ C	
Tstg	Storage Temperature Range	-55~150	$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	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 = 5A; I _B = 1A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.5	V
I _{CBO}	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-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	10			
h _{FE-2}	DC Current Gain	I _C = 5A ; V _{CE} = 5V	5		8	
t _f	Fall Time	I _C = 3A , I _{B1} = 0.6A ; I _{B2} = -1.2A P _W =20 μ s; Duty Cycle≤1%			0.3	μ s

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