

isc Silicon NPN Power Transistor

2SD1711

DESCRIPTION

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

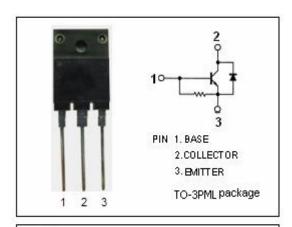
APPLICATIONS

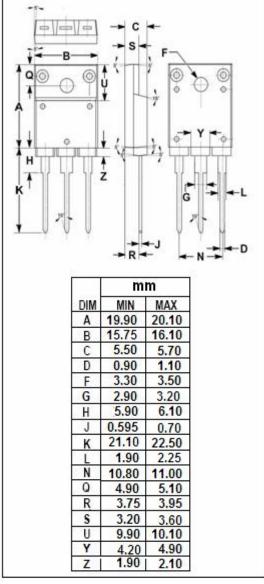


- · Color TV horizontal deflection output
- · Color display horizontal deflection output

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	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	
Іср	Collector Current-Pulse	16	А	
Pc	Collector Power Dissipation @ T _C =25℃	50	W	
TJ	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-55~150	°C	







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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 = 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
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V ; I _C = 0	40		130	mA
h _{FE-1}	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	μ s



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