

isc Silicon NPN Power Transistors

2SD5703

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

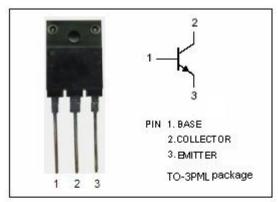


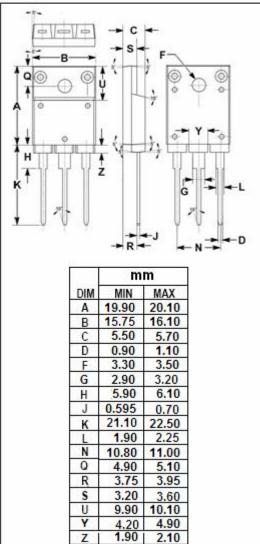
APPLICATIONS

• Designed for color TV horizontal output applications.

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
lc	Collector Current-Continuous	10	Α
Ісм	Collector Current-Peak 30		Α
Pc	Collector Power Dissipation @T _C =25℃	70	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 1.6A			5.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 1.6A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 1400V; I _E = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	mA
h _{FE -1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	15		40	
h _{FE} -2	DC Current Gain	I _C = 8A; V _{CE} = 5V	5.3		7.3	
tf	Fall Time	I _C = 6A, I _{B1} = 1.2A; I _{B2} = -2.4A; R _L = 33.3 Ω;V _{CC} = 200V			0.3	μ \$

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