

isc Silicon NPN Power Transistor

DESCRIPTION

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

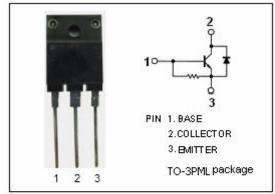


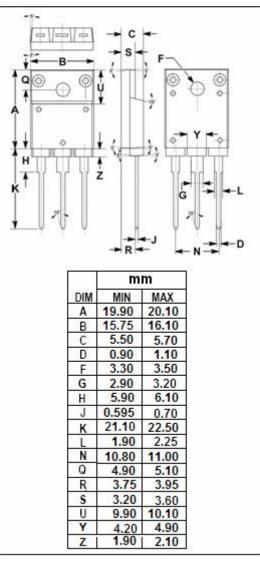
APPLICATIONS

Designed for color TV horizontal deflection output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1500	V	
V _{CEO}	Collector-Emitter Voltage	800	٧	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current- Continuous	7	А	
I _{CP}	Collector Current-Peak	20	Α	
P _C	Collector Power Dissipation @ T _a =25℃	3	W	
	Collector Power Dissipation @ T _C =25℃	60		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$	







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2SD2251

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
Ices	Collector Cutoff Current	V _{CE} = 1500V			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 = 5A ; V _{CE} = 5V	5		8	
V _{ECF}	C-E Diode Forward Voltage	I _F = 7A			2.0	V
t _f	Fall Time	I_{C} = 4A , I_{B1} = 0.8A ; I_{B2} = 1.6A R_{L} = 50 Ω ; V_{CC} = 200V			0.3	μS

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