

isc Silicon NPN Power Transistor

2SD1291

DESCRIPTION

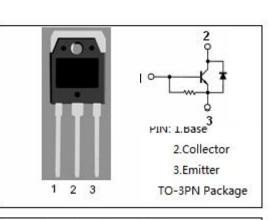
- High Voltage
- Wide Area of Safe Operation
- Built-in damper diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

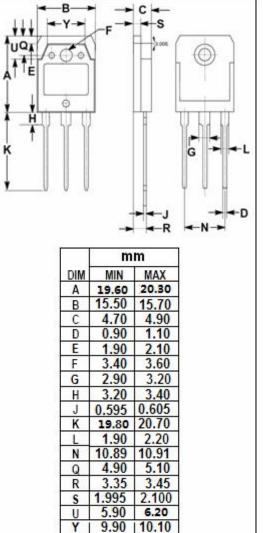
APPLICATIONS

• Designed for color TV horizontal deflection output applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
V _{CES}	Collector-Emitter Voltage	1500	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	3	А
I _{CM}	Collector Current-Peak	13	А
Pc	Collector Power Dissipation @Tc=25℃	65	W
Tj	Junction Temperature	130	°C
T _{stg}	Storage Temperature Range	-55-130	°C
	1	1	







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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 200mA; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2.5Α; I _B = 0.8Α			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.8A			1.5	V
h _{FE}	DC Current Gain	Ic= 2.5A; Vce= 10V	4		12	
І _{сво}	Collector Cutoff Current	V _{CB} = 750V; I _E = 0 V _{CB} = 1500V; I _E = 0			50 1.0	μA mA
VECF	C-E Diode Forward Voltage	I⊧= 4A			2.2	V

Switching Times

ts	Storage Time		8	μs
tf	Fall Time	I _C = 2.5A; I _{Leak} = 0.8A; L _B = 5 μ Η	1	μ S

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