

isc Silicon NPN Power Transistor

2SD1291

DESCRIPTION

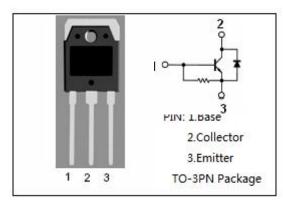
- High Voltage
- Wide Area of Safe Operation
- · Built-in damper diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

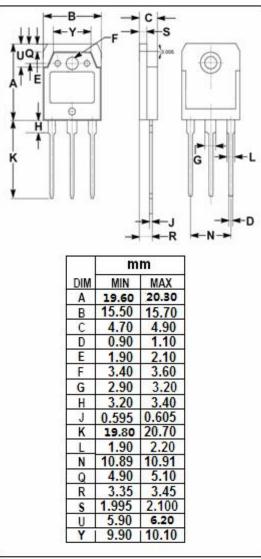
APPLICATIONS

 Designed for color TV horizontal deflection output applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

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	Α	
Ісм	Collector Current-Peak	13	Α	
Pc	Collector Power Dissipation @Tc=25℃			
T _j	Junction Temperature	130	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-55-130	$^{\circ}$ C	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	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 = 2.5A; I _B = 0.8A			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	I _C = 2.5A; V _{CE} = 10V	4		12				
I _{CBO}	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 _F = 4A			2.2	V			
Switching Times									
ts	Storage Time				8	μS			
tf	Fall Time $I_{\text{C}} = 2.5 \text{A}; \ I_{\text{Leak}} = 0.8 \text{A}; \ L_{\text{B}} = 5 \ \mu \ \text{H}$				1	μS			

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