

isc Silicon NPN Power Transistor

DESCRIPTION

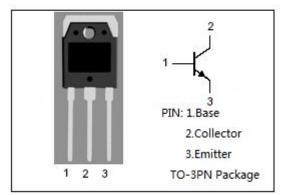
- · High Breakdown Voltage-
 - : V_{CBO}= 1500V (Min)
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

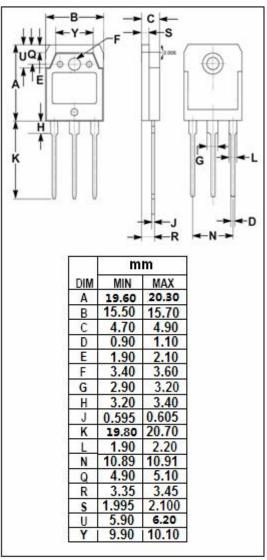
APPLICATIONS

• 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 _{ЕВО}	Emitter-Base Voltage	7	V	
Ic	Collector Current- Continuous	2.5	Α	
Іср	Collector Current-Pulse	10	Α	
Pc	Collector Power Dissipation @ T _C = 25 °C	80	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C	







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2SD1400

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	1500			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; R _{BE} = ∞	800			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	7			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.6A			8.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.6A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V; I _E = 0			10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	mA
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	8			
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V		3		MHz
t _f	Fall Time	I _C = 2A, I _{B1} = 0.6A, I _{B2} = 1.2A; R _L = 100 Ω; V _{CC} = 200V			0.7	μ S

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