

isc Silicon NPN Power Transistor

2SD1453

DESCRIPTION

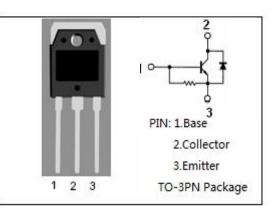
- High Breakdown Voltage-
 - : V_{CBO}= 1500V (Min)
- High Switching Speed
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

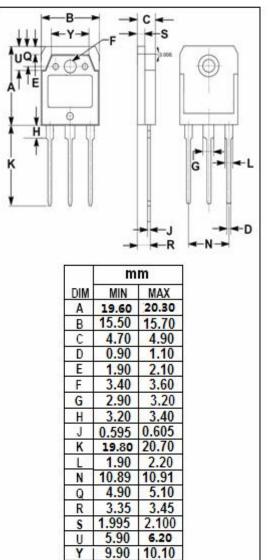
APPLICATIONS

• Designed for TV horizontal deflection output applications.

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CES}	Collector-Emitter Voltage	1500	v	
V _{EBO}	Emitter-Base Voltage	6	V	
lc	Collector Current-Continuous	3	A	
Ісм	Collector Current-Peak	3.5	A	
I _{C(surge)}	Collector Current-Surge	10	A	
Pc	Collector Power Dissipation @ T _C = 25 $^\circ\!$	50	W	
TJ	Junction Temperature 150		°C	
T _{stg}	Storage Temperature Range	-45~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

$T_{C}\text{=}25\,^{\circ}\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 200mA; I _C = 0	6			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
I _{CES}	Collector Cutoff Current	V _{CE} = 1500V; R _{BE} = ∞			0.5	mA
h _{FE}	DC Current Gain	Ic= 0.3A; Vc== 5V	8			
V _{ECF}	C-E Diode Forward Voltage	I⊧= 3A			2.2	V
t _f	Fall Time	I _{CP} = 2.75A, I _{B1} = 0.6A, I _{B2} = -1.3A			0.8	μ S



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