

isc Silicon NPN Power Transistor

2SD1497

DESCRIPTION

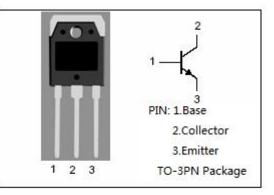
- High Breakdown Voltage-
- : V_{CBO}= 1500V (Min)
- High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

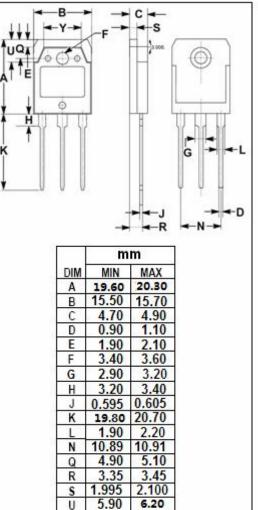
APPLICATIONS

• Designed for TV horizontal deflection output applications.

SYMBOL	PARAMETER	VALUE	UNIT	
V _{сво}	Collector-Base Voltage	1500	V	
V _{CEO}	Collector-Emitter Voltage	600	V	
Vebo	Emitter-Base Voltage	7	V	
I _C	Collector Current-Continuous	6	А	
I _{C(surge)}	Collector Current-Surge	16	А	
Pc	Collector Power Dissipation @ T_C = 25°C	50	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-45~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





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isc website: <u>www.iscsemi.com</u>

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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I_{c} = 10mA; R_{BE} = ∞	600			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 = 5Α; I _B = 1Α			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5Α; I _B = 1Α			1.5	V
I _{CEX}	Collector Cutoff Current	V _{CB} = 1500V; V _{EB} = 2V			1.0	mA
t _f	Fall Time	I _{CP} = 4A, I _{B1} = 1.3A			2.0	μ S
h _{FE-}	DC Current Gain	I _C = 5A ; V _{CE} = 5V	5			



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