

isc Silicon NPN Power Transistor

2SD1163A

DESCRIPTION

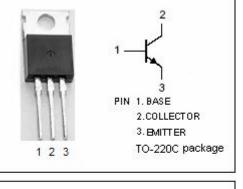
- Collector Current: I_C= 7A
- Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 150V(Min)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

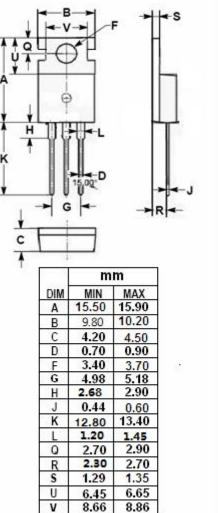
APPLICATIONS

• Designed for TV horizontal deflection applications.

SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	350	v				
V _{CEO}	Collector-Emitter Voltage	150	V				
V _{EBO}	Emitter-Base Voltage	6	V				
lc	Collector Current-Continuous	7	A				
Ісм	Collector Current-Peak	10	А				
$I_{C(surge)}$	Collector Current-Surge	20	A				
Pc	Total Power Dissipation @ T _c =25℃	40	W				
TJ	Junction Temperature	150	°C				
T _{stg}	Storage Temperature Range	-55~150	°C				

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)





¹ *isc & iscsemi* is registered trademark



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA ; R _{BE} = ∞	150			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA ; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			1.0	V
$V_{\text{BE}(\text{sat})}$	Base-Emitter Saturation Voltage	I _C = 5Α; I _B = 0.5Α			1.2	V
Ісво	Collector Cutoff Current	V _{CB} = 350V ; I _E = 0			5	mA
hfe	DC Current Gain	Ic= 5A ; Vce= 5V	25			
t _f	Fall Time	I _{CP} = 3.5Α; I _{B1} = 0.45Α			0.5	μ S

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