

isc Silicon NPN Power Transistor

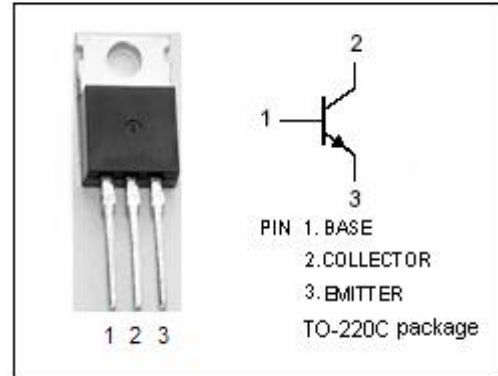
2SD1390

DESCRIPTION

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

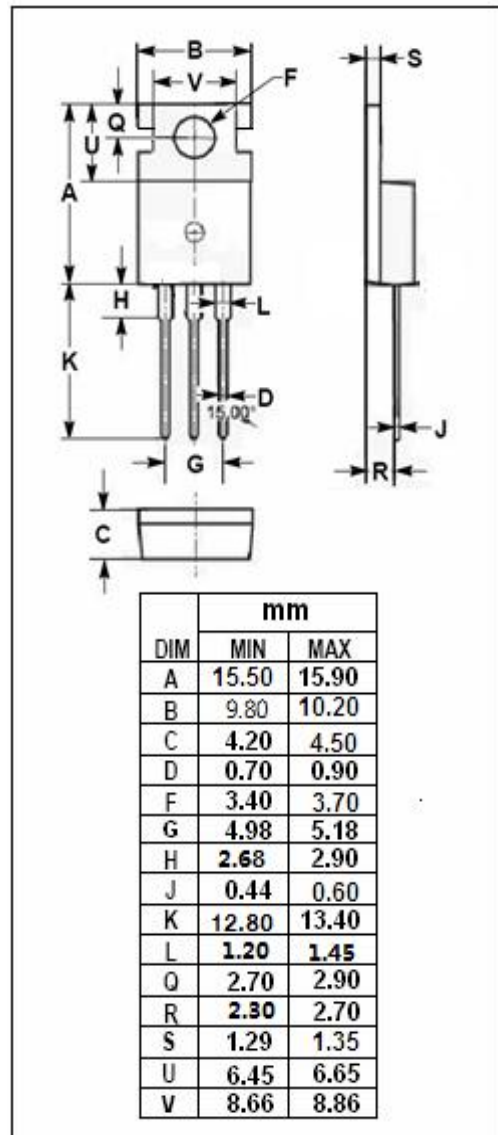
APPLICATIONS

- Designed for line-operated horizontal deflection output applications.



ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ C$)

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
I_C	Collector Current- Continuous	1	A
I_{CP}	Collector Current-Pulse	2.5	A
P_C	Collector Power Dissipation @ $T_c \leq 90^\circ C$	40	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 1A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 1A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 750V; I _E = 0			50	μA
		V _{CB} = 1500V; I _E = 0			1	mA
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 5V	2		7	
t _f	Fall Time				1	μs
t _{stg}	Storage Time	I _C = 2.5A, I _{Bend} = 1.1A, L _B = 10 μH			11	μs

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