

isc Silicon PNP Power Transistor
2SA1651
DESCRIPTION

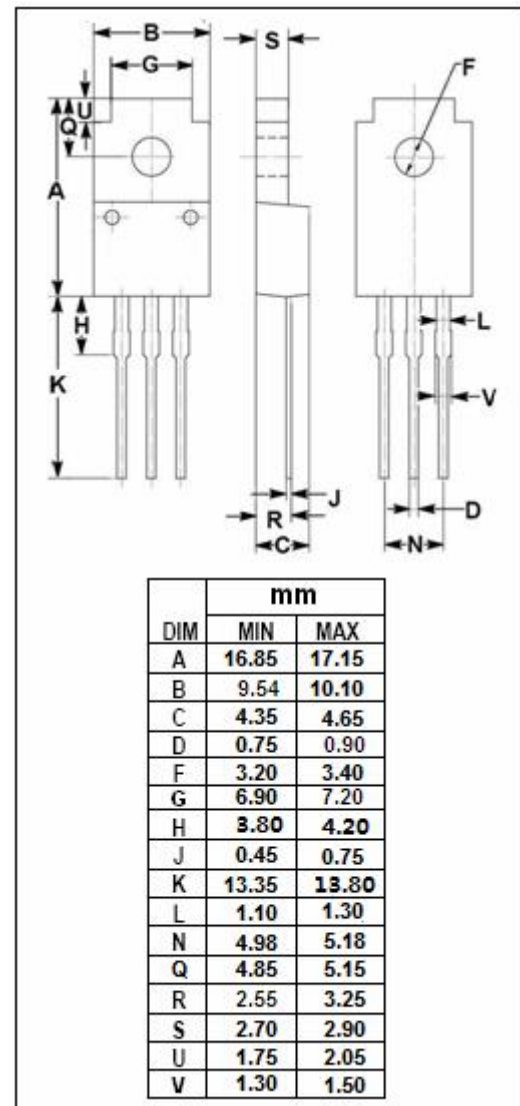
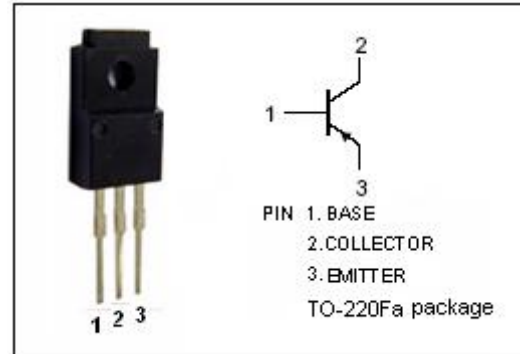
- Collector-Emitter Breakdown Voltage
 $V_{CE0} = -100V(\text{Min})$
- Fast switching speed
- Low collector saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for TV, monitor vertical output applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-150	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-7.0	V
I_C	Collector Current-Continuous	-7	A
I_{CM}	Collector Current-Peak	-14	A
I_B	Base Current-Continuous	-3.5	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	30	W
	Collector Power Dissipation @ $T_a = 25^\circ\text{C}$	1.5	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS
T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -0.2A			-0.3	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -6A; I _B = -0.3A			-0.5	V
V _{BE(sat)-1}	Base-Emitter Saturation Voltage	I _C = -4A; I _B = -0.2A			-1.2	V
V _{BE(sat)-2}	Base-Emitter Saturation Voltage	I _C = -6A; I _B = -0.3A			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-10	μ A
h _{FE-1}	DC Current Gain	I _C = -0.5A; V _{CE} = -2V	100			
h _{FE-2}	DC Current Gain	I _C = -1.5A; V _{CE} = -2V	100		400	
h _{FE-3}	DC Current Gain	I _C = -4A; V _{CE} = -2V	60			

h_{FE-2} Classifications

M	L	K
100-200	150-300	200-400

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