

isc Silicon NPN Power Transistor
J6920
DESCRIPTION

- High Breakdown Voltage-
: $V_{CBO} = 1700V$ (Min)
- Low Saturation Voltage-
: $V_{CE(sat)} = 3V$ (Max)
- High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

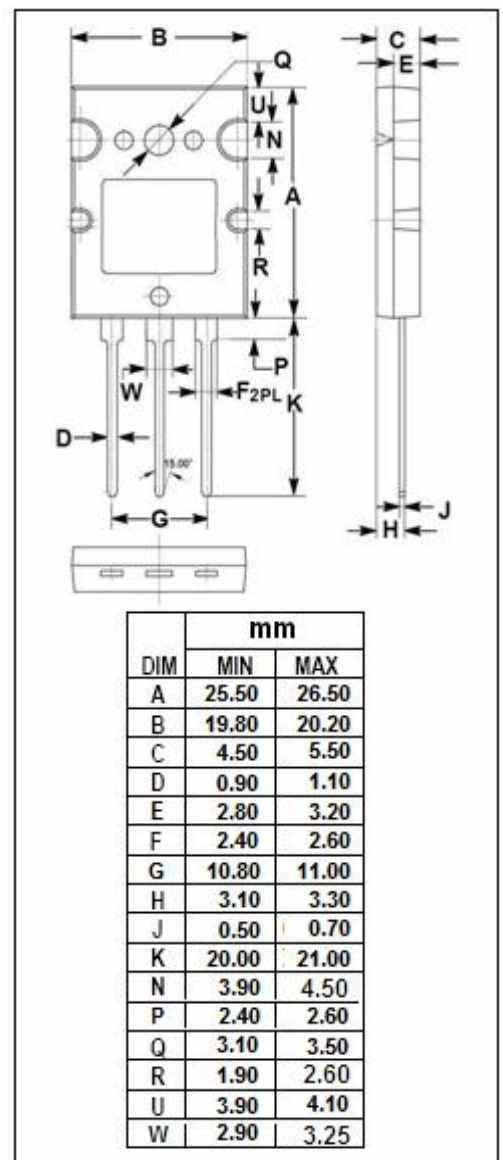
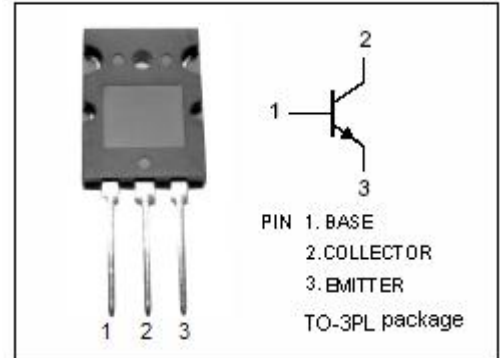
- Color display horizontal deflection output applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1700	V
V_{CEO}	Collector-Emitter Voltage	800	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current- Continuous	20	A
I_{CP}	Collector Current-Pulse	30	A
P_C	Collector Power Dissipation @ $T_c = 25^\circ C$	200	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.625	$^\circ C/W$



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CB0}	Collector-Base Breakdown Voltage	I _C = 500uA; I _E = 0	1700			V
V _{CEO}	Collector-Emitte Breakdown Voltage	I _C = 5mA; I _B = 0	800			V
V _{EBO}	Emitte-Base Breakdown Voltage	I _E = 500uA; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 11A; I _B = 2.75A			3	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 11A; I _B = 2.75A			1.5	V
I _{CB0}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	μ A
I _{CEs}	Collector Cutoff Current	V _{CE} = 1400V ; R _{BE} = 0			1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V ; I _C = 0			1	mA
h _{FE-1}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	8			
h _{FE-2}	DC Current Gain	I _C = 11A ; V _{CE} = 5V	5.5		8.5	

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