

isc Silicon NPN Power Transistor

FJL6820

DESCRIPTION

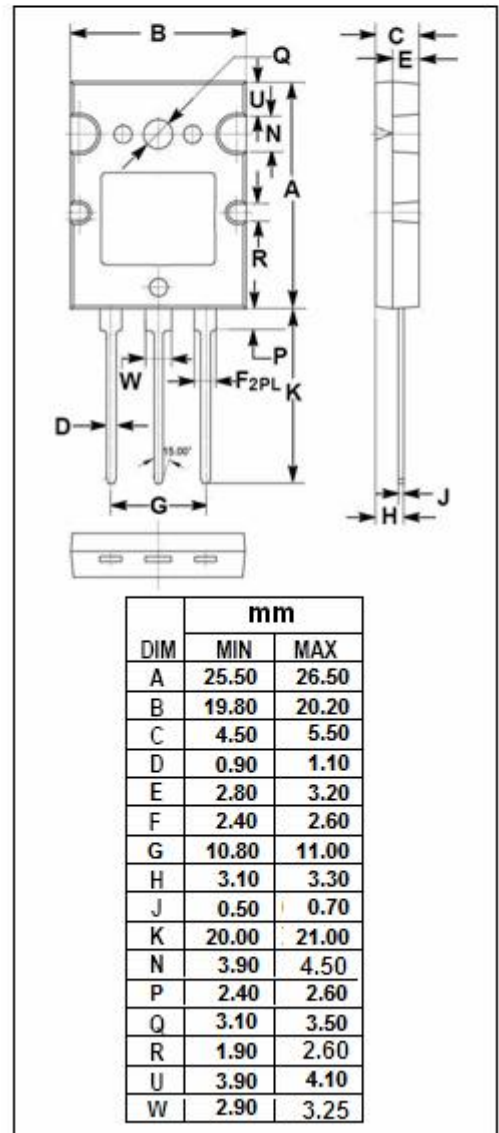
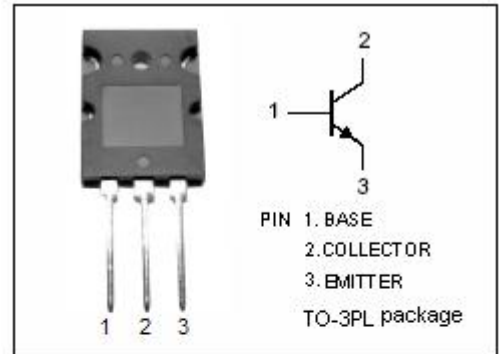
- With TO-3PL packaging
- High collector-base voltage
- High power dissipation
- Low saturation voltage
- For color monitor
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power amplifier applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	750	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current-Continuous	20	A
I _{CP}	Base Current-Continuous Pulse	30	A
P _C	Collector Power Dissipation @ T _C =25°C	200	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = 0.5mA ; I _E = 0	1500			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 5mA ; I _B = 0	750			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = 0.5mA ; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 11A; I _B = 2.75A			3.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 11A; I _B = 2.75A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	mA
I _{CES}	Collector Cutoff Current	V _{CB} = 1400V ; R _{BE} =0			1	μ A
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 = 8.5A ; V _{CE} = 5V	6		10	
h _{FE-3}	DC Current Gain	I _C = 11A ; V _{CE} = 5V	5.5		8.5	

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