

isc Silicon NPN Power Transistor

MJL21194

DESCRIPTION

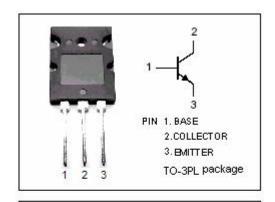
- High Collector-Emitter Breakdown Voltage V(BR)CEO= 250V(Min)
 High DC Current Gain hFE = 25 Min @ IC = 8 Adc
- Complement to Type MJL21193
- The product does not contain halogen
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

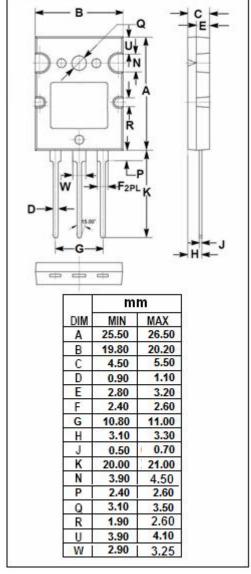


Perforated Emitter technology high power audio output, disk head positioners linear applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	400	V
V _{CEO}	Collector-Emitter Voltage	250	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	16	А
I _B	Base Current-Continuous	5	А
Pc	Collector Power Dissipation @ T _C =25℃	200	W
TJ	Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature Range -55~150		°C







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	250		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 8.0A; I _B = 0.8A		1.4	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 16A; I _B = 3.2A		4.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 8A; V _{CE} = 5V		2.2	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 200V; I _E = 0		100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		100	μА
h _{FE-1}	DC Current Gain	I _C = 8A; V _{CE} = 5V	25	75	
h _{FE-2}	DC Current Gain	I _C = 16A; V _{CE} = 5V	8		
Сов	Output Capacitance	I _E =0; V _{CB} = 10V; f= 1.0MHz		600	pF
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V	10		MHz

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