

isc Silicon NPN Power Transistor

MJL4281A

DESCRIPTION

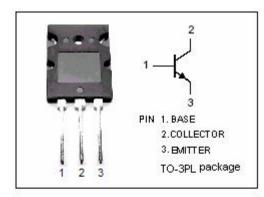
- High Collector-Emitter Breakdown Voltage
 - : V_{(BR)CEO}= 350V(Min)
- High DC Current Gain
 :h_{FE} = 25 Min @ IC = 8 Adc
- Complement to Type MJL4302A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

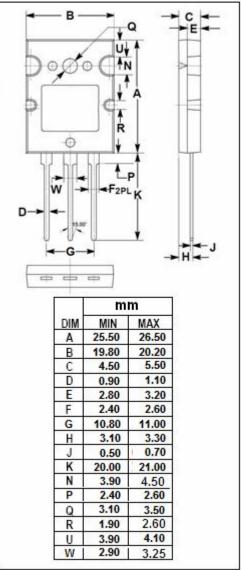
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	350	V
V_{CEO}	Collector-Emitter Voltage	350	V
V_{EBO}	Emitter-Base Voltage	5.0	V
lc	Collector Current-Continuous	15	А
I _B	Base Current-Continuous	1.5	А
Pc	Collector Power Dissipation @ T _C =25℃	230	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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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	350		V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 8.0A; I _B = 0.8A		1.0	V
V _{BE(sat)}	Emitter-Base Saturation Voltage	I _C = 8.0A; I _B = 0.8A		1.4	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 8A; V _{CE} = 5V		1.5	V
ICEO	Collector Cutoff Current	V _{CE} = 200V; I _E = 0		100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		5.0	μА
h _{FE-1}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V	80	250	
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 5V	80	250	
h _{FE-3}	DC Current Gain	I _C = 3A; V _{CE} = 5V	80	250	
h _{FE-4}	DC Current Gain	I _C = 5A; V _{CE} = 5V	80	250	
h _{FE-5}	DC Current Gain	I _C = 8A; V _{CE} = 5V	50		
h _{FE-6}	DC Current Gain	I _C = 15A; V _{CE} = 5V	10		

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