

isc Silicon PNP Power Transistor

MJ15004

DESCRIPTION

- High DC Current Gain-: h_{FE}= 25(Min)@Ic= -5A
- Wide Area of Safe Operation
- Complement to Type MJ15003
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

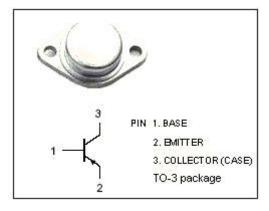
• For high power audio,disk head positioners and other linear applications.

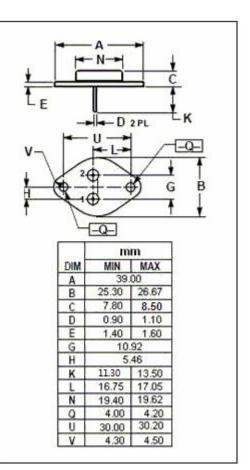


SYMBOL	PARAMETER	VALUE	UNIT			
V _{сво}	Collector-Base Voltage	-140	V			
V _{CEO}	Collector-Emitter Voltage	-140	V			
V _{EBO}	Emitter-Base Voltage	-5	V			
lc	Collector Current-Continuous	-20	А			
I _B	Base Current-Continuous	-5	A			
PD	Total Power Dissipation@T _C =25 $^{\circ}$ C	250	W			
Tj	Junction Temperature	200	°C			
T _{stg}	Storage Temperature	-65~200	°C			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.7	°C/W





isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -50mA ;I _B = 0	-140		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A		-1	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -5A ; V _{CE} = -2V		-2	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -140V; I _B = 0		-0.25	mA
Ісво	Collector Cutoff Current	V _{CB} = -140V;I _E = 0 V _{CB} = -140V;I _E = 0;T _C = 150°C		-0.1 -2.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-0.1	mA
h _{FE}	DC Current Gain	I _C = -5A ; V _{CE} = -2V	25	150	
ls/b	Second Breakdown Collector Current with Base Forward Biased	V _{CE} = -100Vdc,t= 1s, Nonrepetitive	-1		А
Сов	Output Capacitance	I _E = 0 ; V _{CB} = -10V; f _{test} = 0.5MHz		1000	pF
f⊤	Current-Gain—Bandwidth Product	I _C = -0.5A ; V _{CE} = -10V; f _{test} = 0.5MHz	2		MHz

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