

isc Silicon PNP Darlingtion Power Transistor

MJ2501

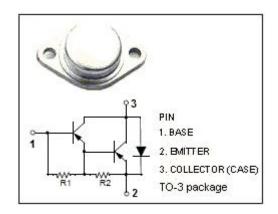
DESCRIPTION

- · Built-in Base-Emitter Shunt Resistors
- High DC current gain h_{FE} = 1000 (Min) @ I_C = -5A
- Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= -80V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

 Designed for use as output devices in complementary general purpose amplifier applications.

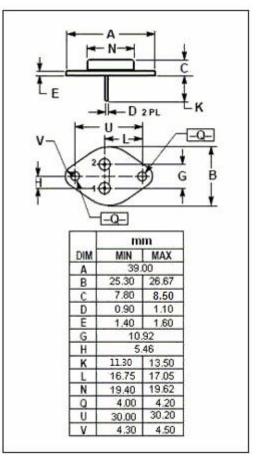


ABSOLUTE MAXIMUM RATINGS(Tc=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-80	V
V _{CEO}	Collector-Emitter Voltage	-80	V
V _{EBO}	Emitter-Base Voltage	V	
Ic	Collector Current -Continuous	-10	Α
Ι _Β	Base Current	-0.2	Α
Pc	Collector Power Dissipation@Tc=25℃	150	W
TJ	Junction Temperature	200	$^{\circ}$
T _{stg}	Storage Temperature	-55~200	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.17	°C/W





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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA; I _B = 0	-80		V
V _{CE} (sat)-1	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -20mA		-2.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -10A; I _B = -50mA		-4.0	V
V _{BE(on)}	Base-Emitter On voltage	I _C = -5A ; V _{CE} = -3V		-3.0	V
I _{CEO}	Collector Cutoff current	V _{CE} = -40V; I _B = 0		-1.0	mA
I _{CBO}	Collector Cutoff current	V _{CB} = -80V; I _B = 0,T _C =150°C		-1.0	mA
І _{ЕВО}	Emitter Cut-off current	V _{EB} = -5V; I _C = 0		-2.0	mA
h _{FE}	DC Current Gain	I _C = -5A ; V _{CE} = -3V	1000		

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