

isc Silicon NPN Darlington Power Transistor

MJE802

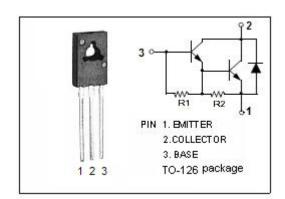
DESCRIPTION

- Collector–Emitter Breakdown Voltage—
 - : $V_{(BR)CEO} = 80 \text{ V}$
- DC Current Gain-
- : $h_{FE} = 750(Min)$ @ $I_{C} = 1.5A$ = 100(Min) @ $I_{C} = 4A$
- Complement to Type MJE702
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

 Designed for general-purpose amplifier and low-speed switching applications

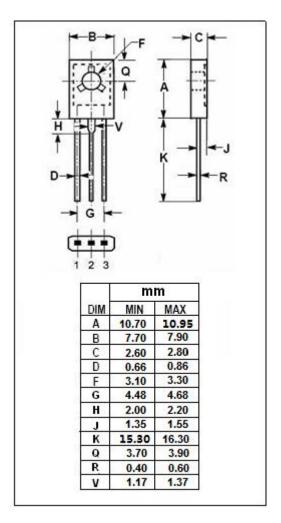


ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	80	V	
V _{CEO}	Collector-Emitter Voltage	80	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	4	А	
l _Β	Base Current	0.1	Α	
Pc	Collector Power Dissipation T_c =25 $^{\circ}$ C	40	W	
Ti	Junction Temperature	150		
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	. PARAMETER		UNIT
R _{th j-c}	th j-c Thermal Resistance, Junction to Case		°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 = 1.5A; I _B = 30mA		2.5	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B =-40mA		3.0	V
V _{BE(on)-1}	Base-Emitter On Voltage	I _C = 1.5A; V _{CE} = 3V		2.5	V
V _{BE(on)-2}	Base-Emitter On Voltage	Ic= 4A; VcE= -3V		3.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 80V; I _B = 0		0.1	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = 80V; I _E = 0 V _{CB} = 80V; I _E = 0;T _C = 100℃		0.1 0.5	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		2.0	mA
h _{FE-1}	DC Current Gain	I _C = 1.5A ; V _{CE} = 3V	750		
h _{FE-2}	DC Current Gain	I _C = 4A; V _{CE} = 3V	100		

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