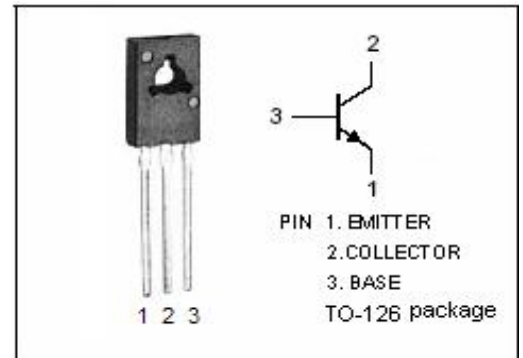


isc Silicon NPN Power Transistor
MJE340
DESCRIPTION

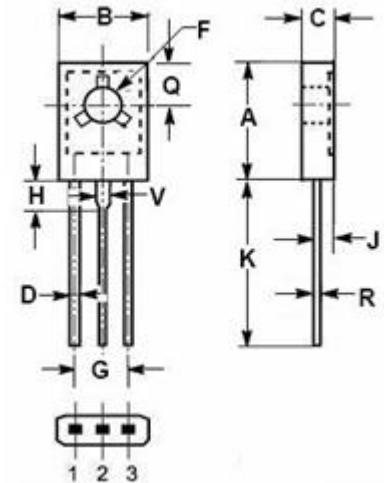
- Collector–Emitter Sustaining Voltage–
: $V_{CEO(SUS)} = 300\text{ V (Min)}$
- DC Current Gain–
: $h_{FE} = 100(\text{Min}) @ I_C = 50\text{ mA}$
- Low Collector Saturation Voltage–
: $V_{CE(sat)} = 1.0\text{ V (Max.)} @ I_C = 50\text{ mA}$
- Complement to the PNP MJE350
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

- Designed for high voltage and general purpose applications.

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	300	V
V_{CEO}	Collector-Emitter Voltage	300	V
V_{EBO}	Emitter-Base Voltage	3	V
I_C	Collector Current-Continuous	0.5	A
P_C	Collector Power Dissipation $T_C = 25^\circ\text{C}$	20	W
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$



DIM	mm	
	MIN	MAX
A	10.70	10.95
B	7.70	7.90
C	2.60	2.80
D	0.66	0.86
F	3.10	3.30
G	4.48	4.68
H	2.00	2.20
J	1.35	1.55
K	15.90	16.30
Q	3.70	3.90
R	0.40	0.60
V	1.17	1.37

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	6.25	$^\circ\text{C/W}$

isc Silicon NPN Power Transistor

MJE340

ELECTRICAL CHARACTERISTICS

T_c =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 1.0mA; I _B = 0	300		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1.0mA; I _E = 0	300		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1.0mA; I _C = 0	3		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 50mA ; I _B = 5mA		1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 300V; I _E = 0		0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0		0.1	mA
h _{FE}	DC Current Gain	I _C = 50m A ; V _{CE} = 10V	100	240	

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