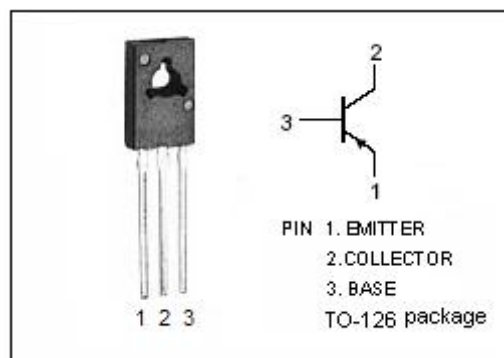


**isc Silicon PNP Power Transistor**
**MJE350**
**DESCRIPTION**

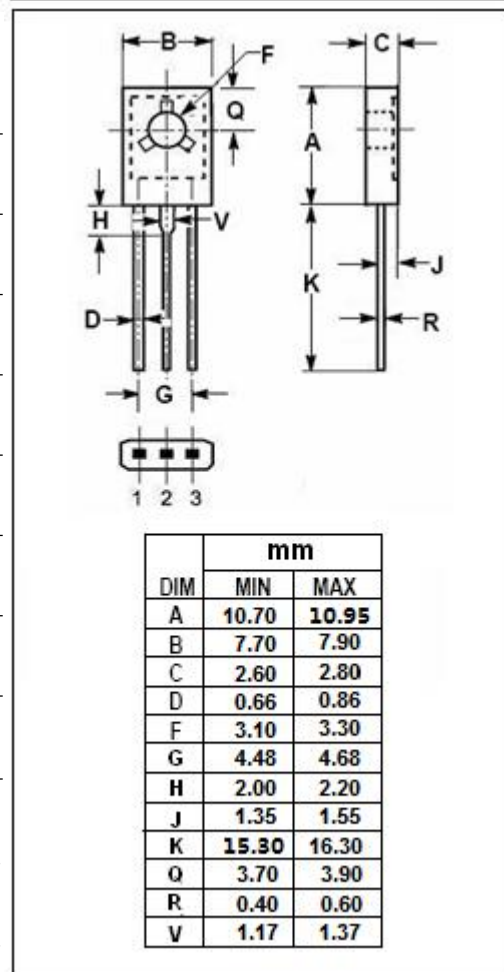
- Collector–Emitter Sustaining Voltage–  
:  $V_{CE(SUS)} = -300\text{ V}(\text{Min})$
- DC Current Gain–  
:  $h_{FE} = -100(\text{Min}) @ I_C = -50\text{mA}$
- Low Collector Saturation Voltage–  
:  $V_{CE(sat)} = -1.0\text{V}(\text{Max.}) @ I_C = -50\text{mA}$
- Complement to the NPN MJE340
- Minimum 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	$^\circ\text{C}$


**THERMAL CHARACTERISTICS**

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

## isc Silicon PNP Power Transistor

## MJE350

## ELECTRICAL CHARACTERISTICS

T<sub>c</sub> =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V <sub>CEO(SUS)</sub>	Collector-Emitter Sustaining Voltage	I <sub>C</sub> = -1.0mA; I <sub>B</sub> = 0	-300		V
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = -1.0mA; I <sub>E</sub> = 0	-300		V
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -1.0mA; I <sub>C</sub> = 0	-3		V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -50mA; I <sub>B</sub> = -5mA		-1.0	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -300V; I <sub>E</sub> = 0		-0.1	mA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -3V; I <sub>C</sub> = 0		-0.1	mA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = -50m A ; V <sub>CE</sub> = -10V	30	240	

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