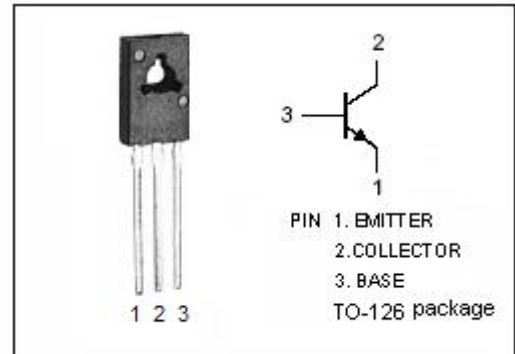


**isc Silicon NPN Power Transistor**
**2SC2752**
**DESCRIPTION**

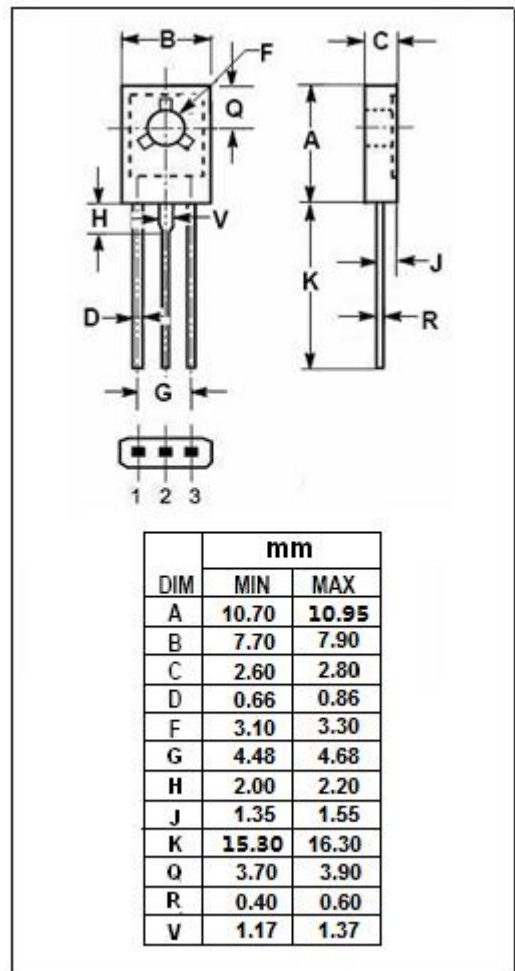
- High breakdown voltage
- Complementary to 2SA1156 PNP transistor
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- The 2SC2752 is suitable for low power switching regulator, DC-DC converter and high voltage switch.


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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	500	V
$V_{CER}$	Collector-Emitter Voltage $R_{BE}=150\ \Omega$	500	V
$V_{CEO}$	Collector-Emitter Voltage	400	V
$V_{EBO}$	Emitter-Base Voltage	7	V
$I_c$	Collector Current-Continuous	0.5	A
$P_C$	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	10	W
$T_J$	Junction Temperature	-55~150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ\text{C}$



## isc Silicon NPN Power Transistor

2SC2752

## ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> =0.3A; I <sub>B</sub> = 60mA			1.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> =0.3A; I <sub>B</sub> = 60mA			1.2	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 500V ; I <sub>E</sub> = 0			1	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 7V; I <sub>C</sub> = 0			1	μ A
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = 50mA; V <sub>CE</sub> = 5V	20		80	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = 0.3A ; V <sub>CE</sub> = 5V	10			

◆ h<sub>FE-1</sub> Classifications

M	L	K
20-40	30-60	40-80

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