

isc Silicon NPN Power Transistor

KSC2752

DESCRIPTION

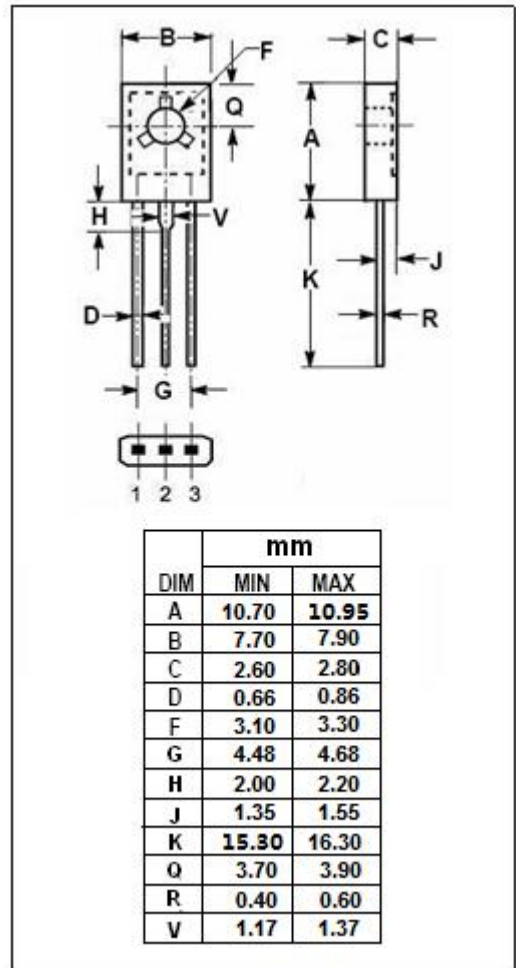
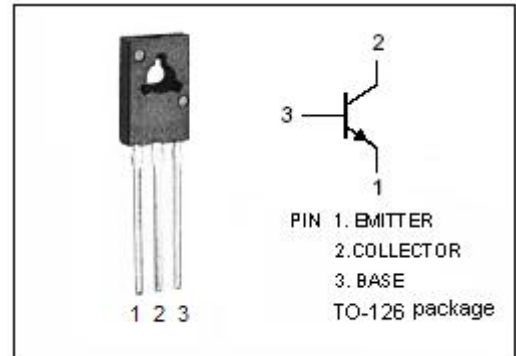
- High breakdown voltage
- Complementary to KSA1156 PNP transistor
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- The KSC2752 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**KSC2752****ELECTRICAL CHARACTERISTICS****T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =0.3A; I _B = 60mA			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =0.3A; I _B = 60mA			1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 500V ; I _E = 0			10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			10	μ A
h _{FE-1}	DC Current Gain	I _C = 50mA ; V _{CE} = 5V	20		80	
h _{FE-2}	DC Current Gain	I _C = 0.3A ; V _{CE} = 5V	10			

◆ h_{FE-1} Classifications

R	O	Y
20-40	30-60	40-80

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