

isc Silicon NPN Power Transistor
KSC3503
DESCRIPTION

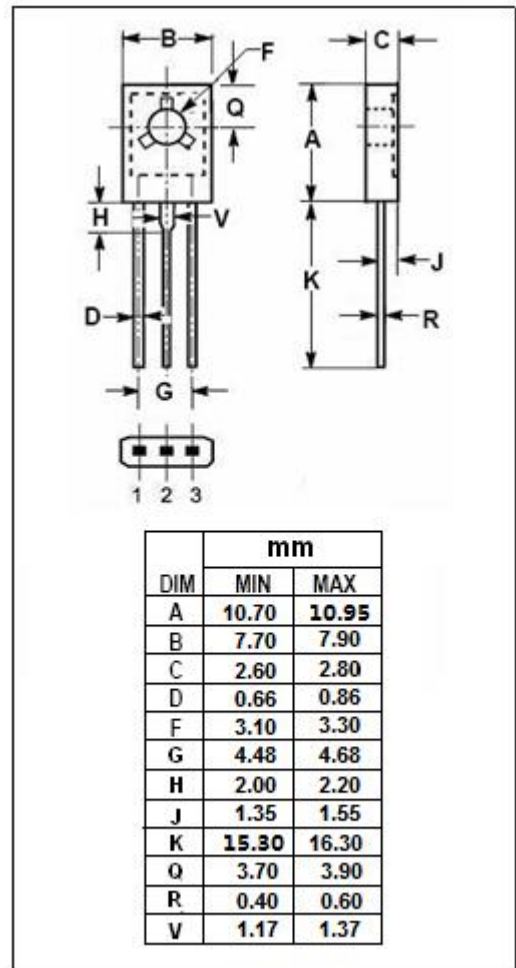
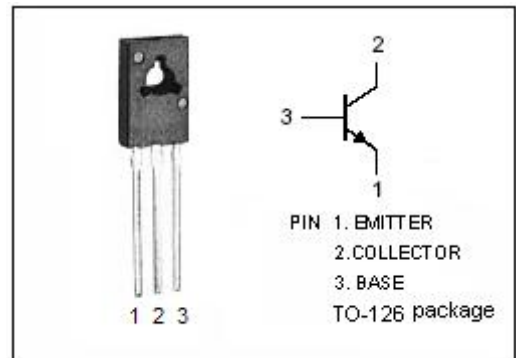
- Low Collector Saturation Voltage
- High breakdown voltage
- Silicon NPN epitaxial planar transistor
- Small reverse transfer capacitance and excellent high frequency characteristic
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- For high definition CRT display ,video output

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	300	V
V _{EBO}	Emitter-Base Voltage	5	V
I _c	Collector Current-Continuous	0.1	A
P _c	Collector Power Dissipation @ T _c =25°C	7	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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ELECTRICAL CHARACTERISTICS

 T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base breakdown voltage	I _C =1mA ; I _B =0	300			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =10mA ; I _B =0	300			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =1mA ; I _C =0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =20mA; I _B = 2mA			0.6	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =20mA; I _B = 2mA			1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 300V ; I _E = 0			1.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	μ A
h _{FE}	DC Current Gain	I _C = 10mA ; V _{CE} = 10V	40		320	
f _T	Current-Gain—Bandwidth Product	I _E = -10mA; V _{CE} = 30V		150		MHz

◆ h_{FE} Classifications

C	D	E	F
40-80	60-120	100-200	160-320

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