

isc Silicon NPN Power Transistor

KSC5026M

DESCRIPTION

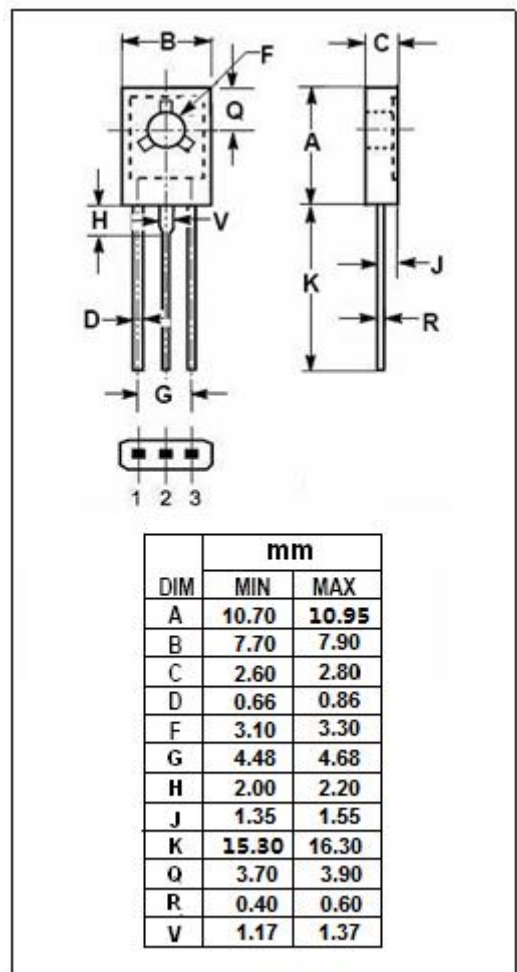
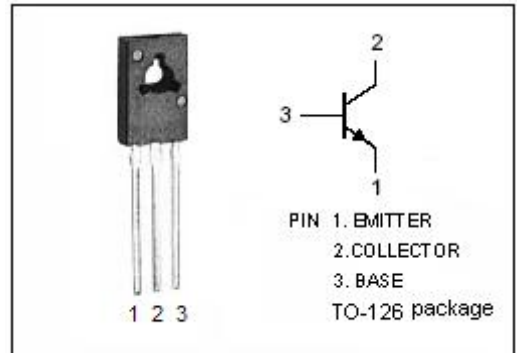
- Low Collector Saturation Voltage
- High breakdown voltage
- Small reverse transfer capacitance and excellent high frequency characteristic
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- For high definition CRT display ,video output

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1100	V
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	7	V
I _C	Collector Current-Continuous	1.5	A
P _C	Collector Power Dissipation @ T _c =25°C	20	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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	1100			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =5mA ; I _B =0	800			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 =750mA; I _B = 150mA			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =750mA; I _B = 150mA			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} =800V ; I _E = 0			10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μ A
h _{FE-1}	DC Current Gain	I _C = 100mA ; V _{CE} =5V	10		40	
h _{FE-2}	DC Current Gain	I _C = 500mA ; V _{CE} =5V	8			
f _T	Current-Gain—Bandwidth Product	I _E = -100mA; V _{CE} = 10V		15		MHz

◆ h_{FE} Classifications

N	R	O
10-20	15-30	20-40

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