



ISC Silicon NPN Power Transistor

DESCRIPTION

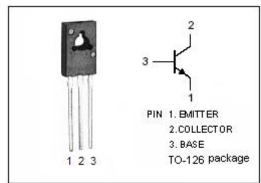
- · Low Collector Saturation Voltage
- High breakdown voltage
- Silicon NPN epitaxial planar transistor
- Small reverse transfer capacitance and excellent high frequency characteristic
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

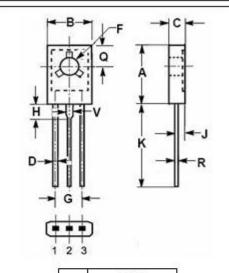


• For high definition CRT display ,video output

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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
Ic	Collector Current-Continuous	0.1	А
Pc	Collector Power Dissipation @ Tc=25℃	7	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$





	mm	
DIM	MIN	MAX
Α	10.70	10.95
В	7.70	7.90
C	2.60	2.80
D	0.66	0.86
F	3.10	3.30
G	4.48	4.68
н	2.00	2.20
J	1.35	1.55
K	15.30	16.30
Q	3.70	3.90
R	0.40	0.60
V	1.17	1.37



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KSC3503

ELECTRICAL CHARACTERISTICS

T_c=25℃ 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	base breakdown voltage I _E =1mA ; I _C =0				V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =20mA; I _B = 2mA			0.6	V
$V_{\text{BE}(\text{sat})}$	Base-Emitter Saturation Voltage	I _C =20mA; I _B = 2mA			1.0	V
Ісво	Collector Cutoff Current	V _{CB} = 300V ; I _E = 0			1.0	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	μА
h _{FE}	DC Current Gain	I _C = 10mA ; V _{CE} = 10V	40		320	
f⊤	Current-Gain—Bandwidth Product	I _E = -10mA; V _{CE} = 30V		150		MHz

♦ h_{FE} Classifications

С	D	E	F
40-80	60-120	100-200	160-320

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2