

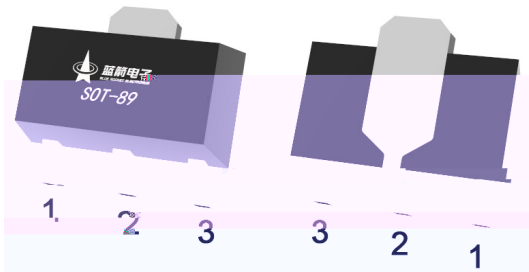
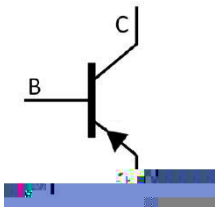
SOT-89 PNP Silicon PNP transistor in a SOT-89 Plastic Package.

AEC-Q101

High current, low voltage, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

Driver stages of audio and video amplifiers, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

h _{FE(1)} Classifications	10	16
h _{FE(1)} Range	63 160	100

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V _{CBO}	-100	V
Collector to Emitter Voltage	V _{CEO}	-80	V
Emitter to Base Voltage	V _{EBO}	-5	V
Collector Current-Continuous	I _C	-1	A
Peak Collector Current	I _{CM}	-1.5	A
Peak Base Current	I _{BM}	-0.2	A
Collector Power Dissipation	P _C (T _C =25)	1.3	W
Storage Temperature Range	T _{stg}	-55 150	

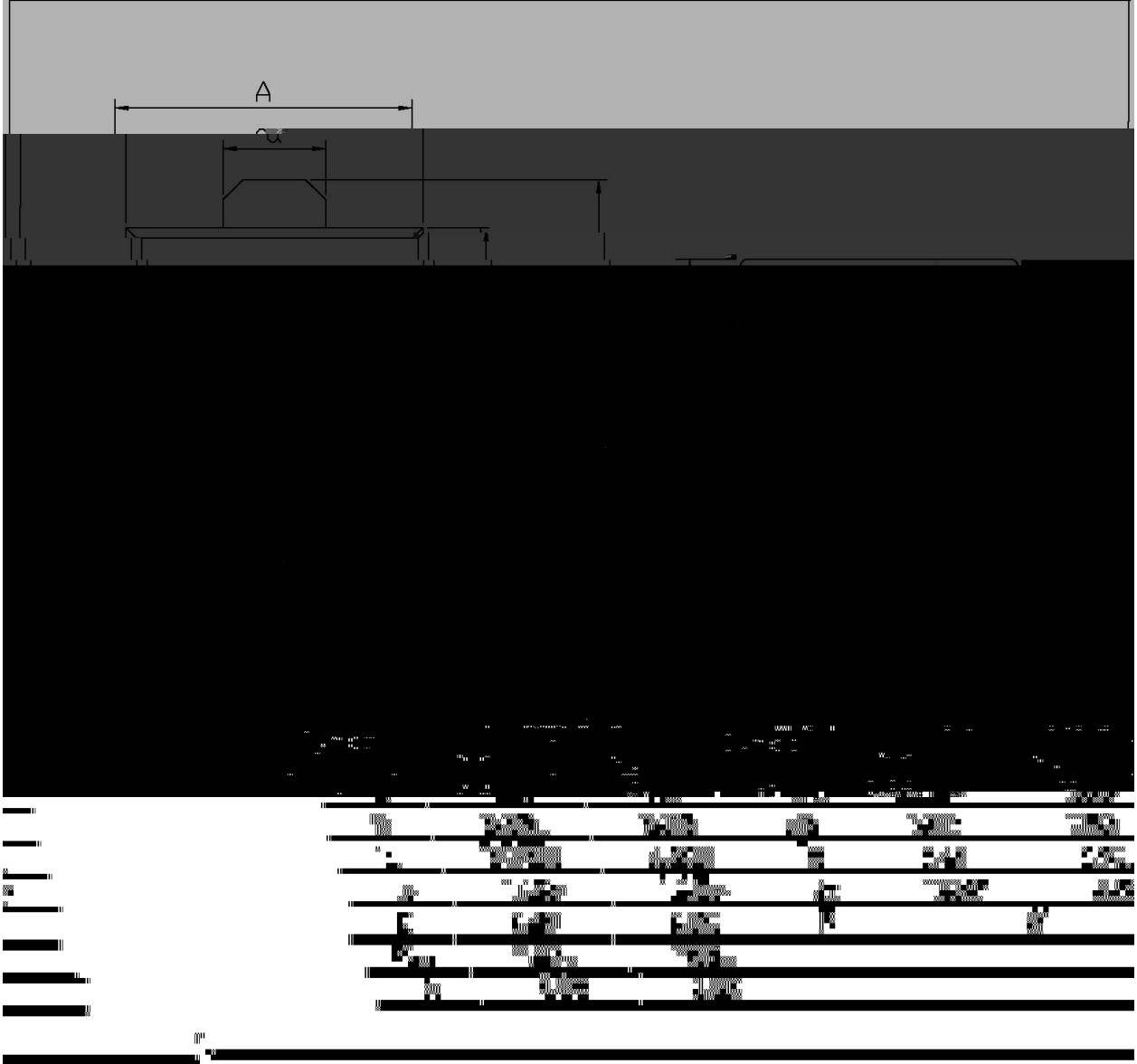
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I _{CBO(1)}	V _{CB} =-30V I _E =0			-0.1	μA
	I _{CBO(2)}	V _{CB} =-30V I _E =0 T _j =125			-10	μA
Emitter Base Cut-Off Current	I _{EBO}	V _{EB} =-5V I _C =0			-0.1	μA
DC Current Gain	h _{FE(1)}	V _{CE} =-2V I _C =-150mA	63		250	
	h _{FE(2)}	V _{CE} =-2V I _C =-5mA	40			
	h _{FE(3)}	V _{CE} =-2V I _C =-500mA	25			
Collector to Emitter Saturation Voltage	V _{CE(sat)}	I _C =-500mA I _B =-50mA			-0.5	V
Base to Emitter Voltage	V _{BE}	I _C =-500mA V _{CE} =-2V			-1	V
Transition Frequency	f _T	I _C =-10mA f=100MHZ V _{CE} =-5.0V		50		MHz

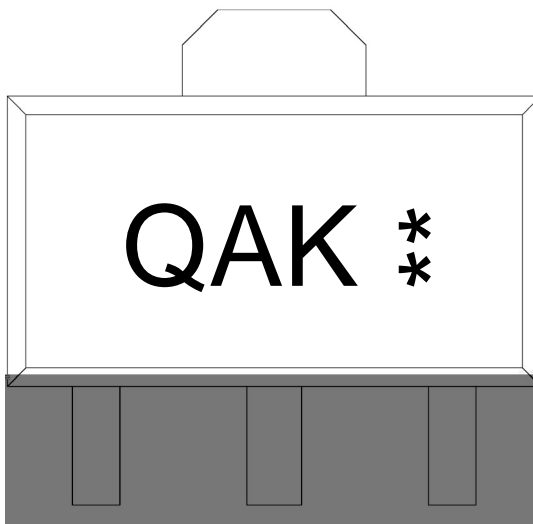
/ Package Dimensions

SOT-89

单位: mm



/ Marking Instructions



Q

AK

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Note:

Q: Automobile halogen-free product Code

AK: Product Type Code

**: Lot No. Code, code change with Lot No

BRBCX53Q
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