

DESCRIPTION

The 2SB766~ 2SB766A are available in SOT-89 Package

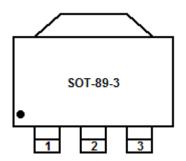
ORDERING INFORMATION

Package Type	Part Number			
SOT-89	2SB766			
	2SB766A			
Note	SPQ: 1,000pcs/Reel			
AiT provides all RoHS Compliant Products				

FEATURES

- Large collector power dissipation PC
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing
- Available in SOT-89 Package

PIN DESCRIPTION



- 1. BASE
- 2. COLLECTOR
- 3. EMITTER

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ABSOLUTE MAXIMUM RATINGS

T_A=25°C

1A-23 C		
V Callacter Deep Voltage	2SB766	-30V
V _{CBO} , Collector-Base Voltage	2SB766A	-60V
V _{CEO} , Collector-Emitter Voltage	2SB766	-25V
	2SB766A	-50V
V _{EBO} , Emitter-Base Voltage		-5V
Ic, Collector Current	-1A	
Icp, Peak Collector Current		-1.5A
P _C , Collector Power Dissipation		-1W
T _J , Junction Temperature		150°C
T _{STG} , Storage Temperature		-55°C ~150°C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

 $T_A=25^{\circ}C$

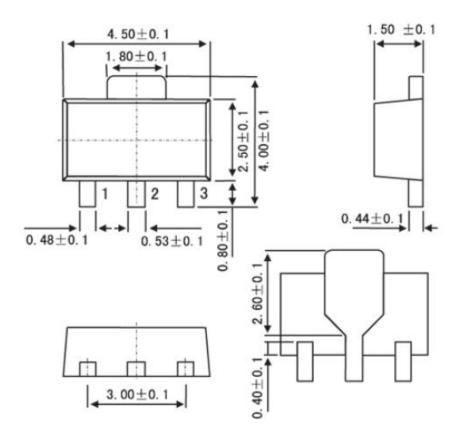
Parameter		Symbol	Conditions		Min.	Тур.	Max.	Unit
Collector-Base Voltage	2SB766	V _{СВО}	I _C =-10μA, I _E =0		-30			V
	2SB766A				-60			
Collector-Emitter Voltage	2SB766	V _{CEO}	I _C =-2mA, I _B =0		-25			V
	2SB766A				-50			
Emitter-Base Voltage		V_{EBO}	I _E =-10μA, I _C =0		-5			V
Collector Cutoff Current		Ісво	V _{CB} = -20V, I _E =0				-0.1	nA
Forward Current Transfer Ratio		hfE	V _{CE} =-10V, I _C =-500mA	Q	85		170	
				R	120		240	
				S	170		340	
			V _{CE} =-5V, I _C =-1A		50			
Collector- Emitter Saturation Voltage		V _{CE(sat)}	I _C =-500mA, I _B =-50mA			-0.2	-0.4	V
Base-Emitter Saturation Voltage		V _{BE(sat)}	I _C =-500mA, I _B =-50mA			-0.85	-1.2	V
Transition Frequency		f⊤	V _{CB} =-10V, I _E =50mA, f=200MHz			200		MHz
Collector Output Capacitance		Cob	V _{CB} =-10V, I _E =0, f=1MHz			20	30	pF

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PACKAGE INFORMATION

Dimension in SOT-89 (Unit: mm)



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IMPORTANT NOTICE

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AiT Components assumes to no liability to customer product design or application support. AiT warrants the performance of its products of the specifications applicable at the time of sale.

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