

DESCRIPTION

The 2SB1132 is available in SOT-89 Package.

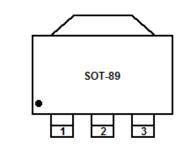
FEATURES

• Available in SOT-89 Package.

ORDERING INFORMATION

Package Type	Part Number				
SOT-89	2SB1132P				
	2SB1132Q				
	2SB1132R				
Note	SPQ: 1,000pcs/Reel				
AiT provides all RoHS Compliant Products					

PIN DESCRIPTION



- 1. Base
- 2. Collector
- 3. Emitter



ABSOLUTE MAXIMUM RATINGS

T _A =25°C	
-V _{CBO} , Collector Base Voltage	40V
-V _{CEO} , Collector Emitter Voltage	32V
-V _{EBO} , Emitter Base Voltage	5V
-I _C , Collector Current - DC	1A
-I _{CP} , Collector Current - Pulse ^{NOTE1}	2A
D. Total Davies Disais ation	0.5W
P _{tot} , Total Power Dissipation	2W ^{NOTE2}
T _J , Junction Temperature	150°C
T _{STG} , Storage Temperature Range	-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.

NOTE1: Single pulse, P_W = 100 ms.

NOTE2: When mounted on a 40 X 40 X 0.7 mm ceramic board.

ELECTRICAL CHARACTERISTICS

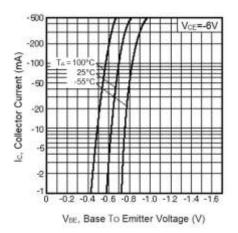
T ₄ =25°C	•
TA-20 C	,

Parameter	Symbol	Conditions		Min.	Тур.	Max.	Unit
	-V _{(BR)CBO}	-Ic=50μΑ		40	-	-	V
Breakdown Voltage	-V(BR)CEO	-Ic=1mA		32	-	-	V
	-V _{(BR)EBO}	-Ι _Ε =50μΑ		5	-	-	V
Collector Cutoff Current	-Ісво	-V _{CB} =20V		-	-	0.5	μA
Emitter Cutoff Current	-I _{EBO}	-V _{EB} =4V		-	-	0.5	μA
Collector Emitter Saturation Voltage	-V _{CE(sat)}	-I _C =500mA, -I _B =50mA		-	-	0.5	V
DC Current Gain	hfe	-V _{CE} =3V, -I _C =	Р	82	-	180	-
		100mA Current	Q	120	-	270	
		Gain Group	R	180	-	390	
Transition Frequency	f⊤	I _E =50mA, -V _{CE} =5V, f=30 MHz		-	150	-	MHz

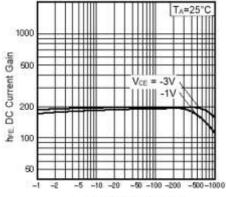


TYPICAL PERFORMANCE CHARACTERISTICS

1. Grounded Emitter Propagation Characteristics



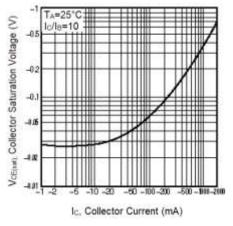
3. DC Current Gain vs. Collector Current (I)



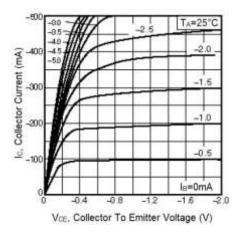
Ic, Collector Current (mA)

5. Collector-Emitter Saturation Voltage vs.

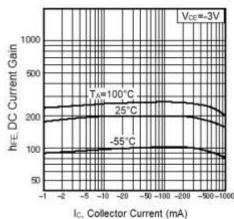
Collector Current



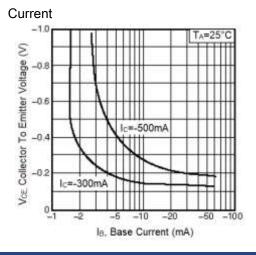
2. Grounded Emitter Output Characteristics



4. DC Current Gain vs. Collector Current (II)



6. Collector-Emitter Saturation Voltage vs. Base

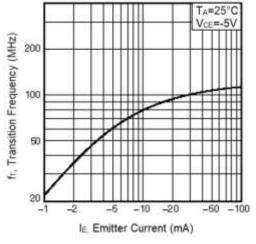




TA=25°C

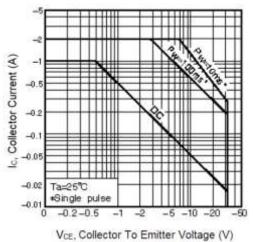
f=1MHz

IE=0A



7. Gain Bandwidth Product vs. Emitter Current

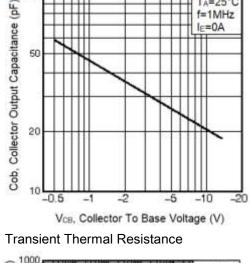
9. Safe Operation area

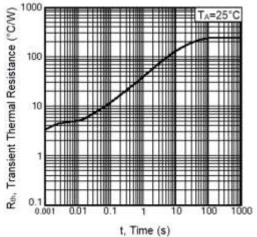


8. Collector output Capacitance vs.

10.

Collector-Base Voltage 100

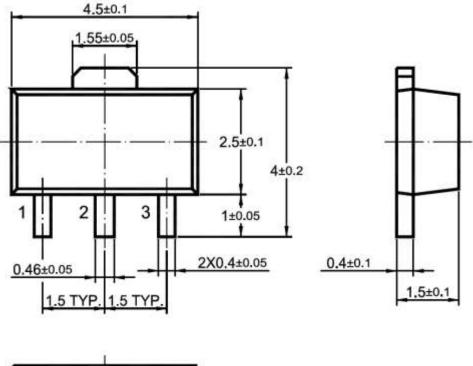


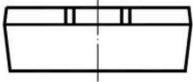




PACKAGE INFORMATION

Dimension in SOT-89 (Unit: mm)







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