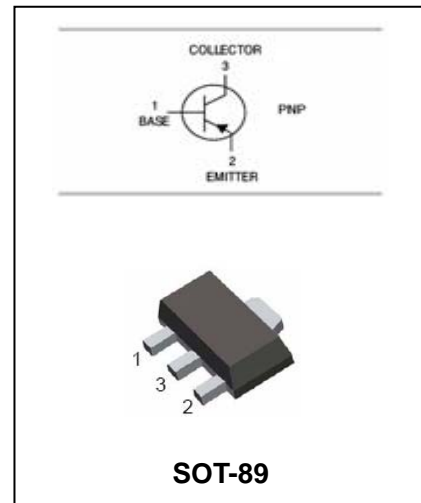


PNP Epitaxial Planar Silicon Transistors

2SB1073

FEATURES

- Low collector-emitter saturation voltage $V_{CE(sat)}$.
- Large peak collector current I_{CP} .
- Mini Power type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.



ORDERING INFORMATION

Type No.	Marking	Package Code
2SB1073	IQ/IR	SOT-89

MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-30	V
V_{CEO}	Collector-Emitter Voltage	-20	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current	-4	A
I_{CP}	Peak collector current	-7	A
P_C	Collector Dissipation	1	W
T_j, T_{stg}	Junction and Storage Temperature	-55 to +150	$^\circ\text{C}$

PNP Epitaxial Planar Silicon Transistors

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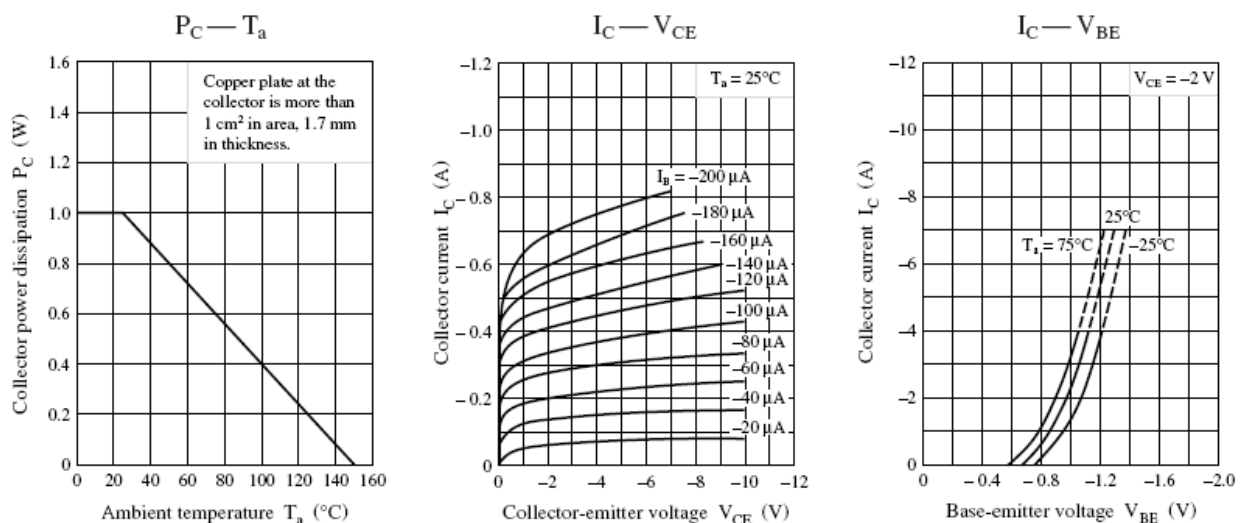
ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-10\mu\text{A } I_E=0$	-30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1\text{mA } I_B=0$	-20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-10\mu\text{A } I_C=0$	-7			V
Collector cut-off current	I_{CBO}	$V_{CB}=-30\text{V } I_E=0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-7\text{V}, I_C=0$			-0.1	μA
DC current gain	h_F	$V_{CE}=-2\text{V } I_C=-2\text{A}$	120		315	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-3\text{A } I_B=-0.1\text{A}$		-0.6	-1.0	V
Transition frequency	f_T	$V_{CB}=-6\text{V}, I_E=-50\text{mA},$ $f=200\text{MHZ}$		120		MHz
Output Capacitance	C_{obo}	$V_{CB}=-20\text{V } f=1.0\text{MHz } I_E=0$		40		pF

CLASSIFICATION OF h_{FE}

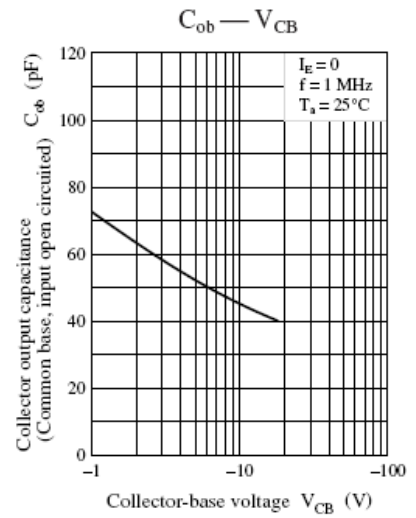
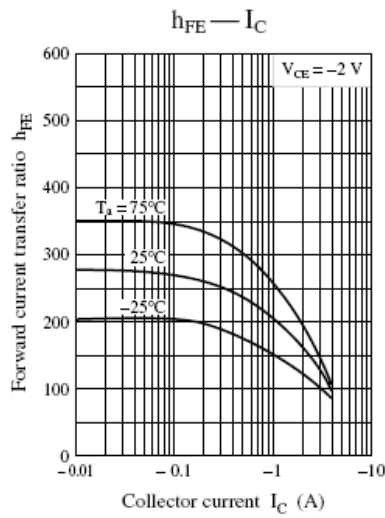
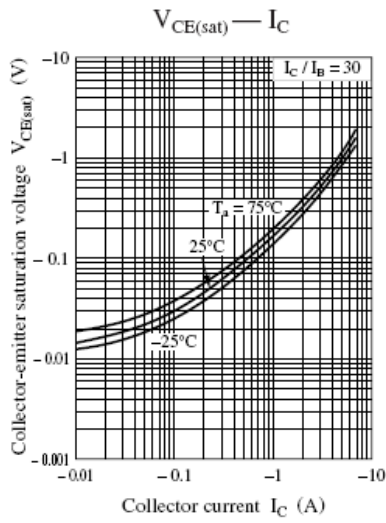
Rank	Q	R
Range	120-205	180-315
Marking	IQ	IR

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified



PNP Epitaxial Planar Silicon Transistors

2SB1073



PACKAGE OUTLINE

Plastic surface mounted package

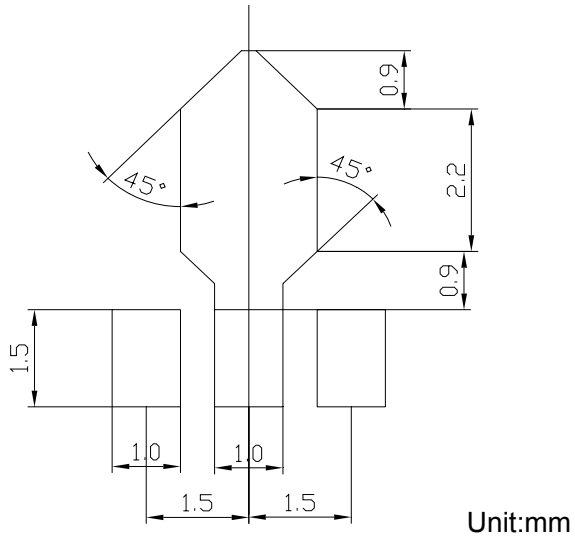
SOT-89

SOT-89		
Dim	Min	Max
A	4.5	4.7
B	2.3	2.7
C	1.5Typical	
D	0.35	0.55
E	1.4	1.6
F	0.4	0.6
H	1.55	1.75
J	0.4Typical	
K	4.15	4.25
All Dimensions in mm		

PNP Epitaxial Planar Silicon Transistors

2SB1073

SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
2SB1073	SOT-89	1000/Tape&Reel

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