

PNP Epitaxial Planar Silicon Transistors

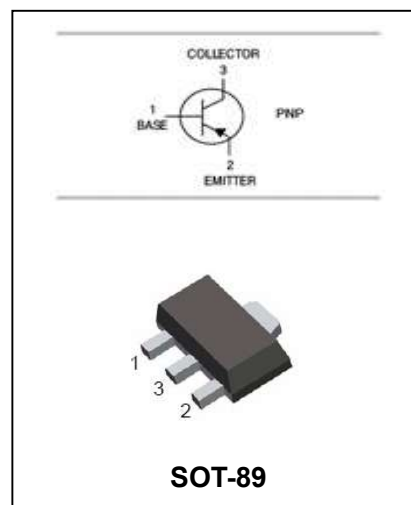
2SB1073

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.



Lead-free



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	$^{\circ}\text{C}$

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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

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

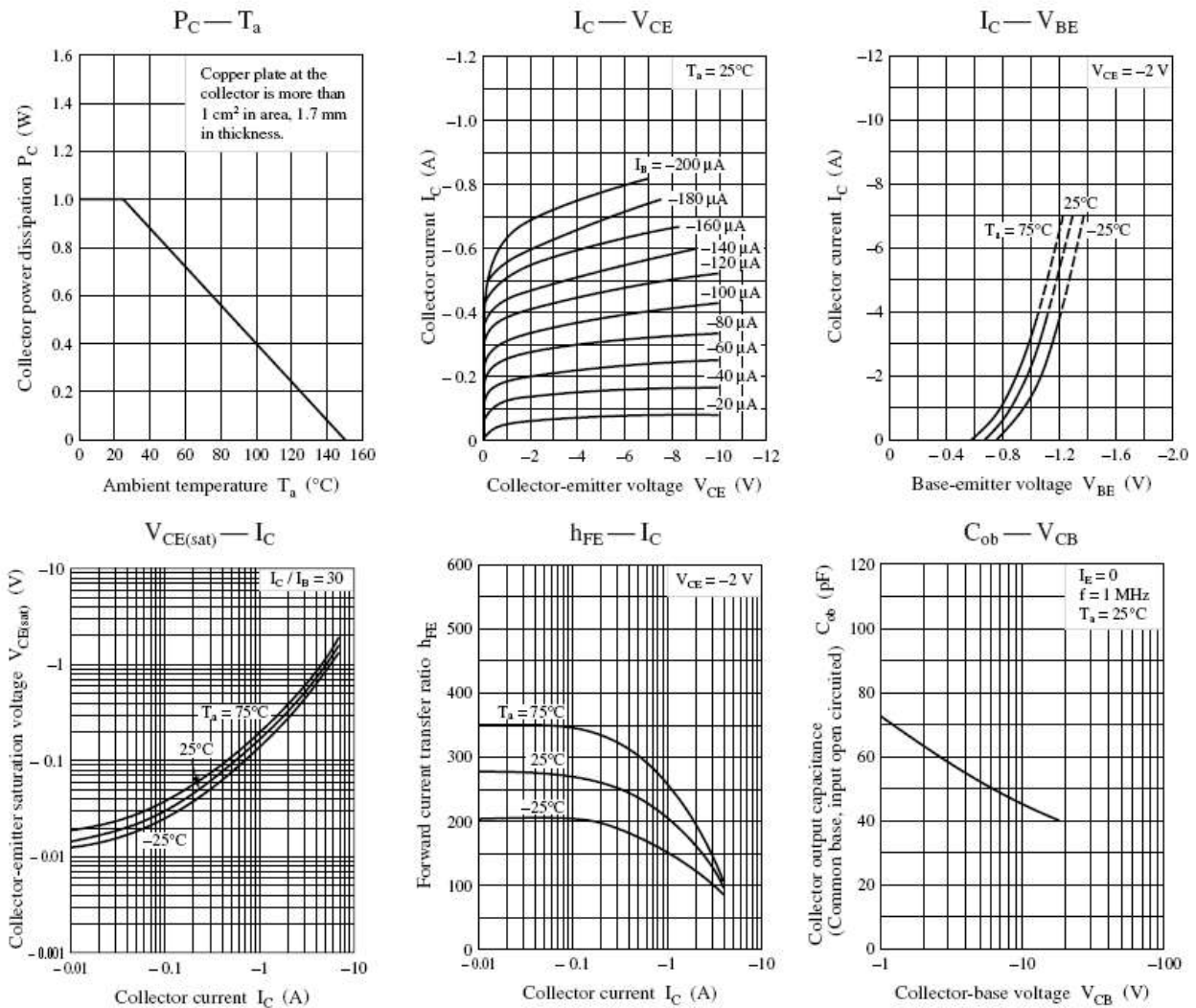
CLASSIFICATION OF h_{FE}

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

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



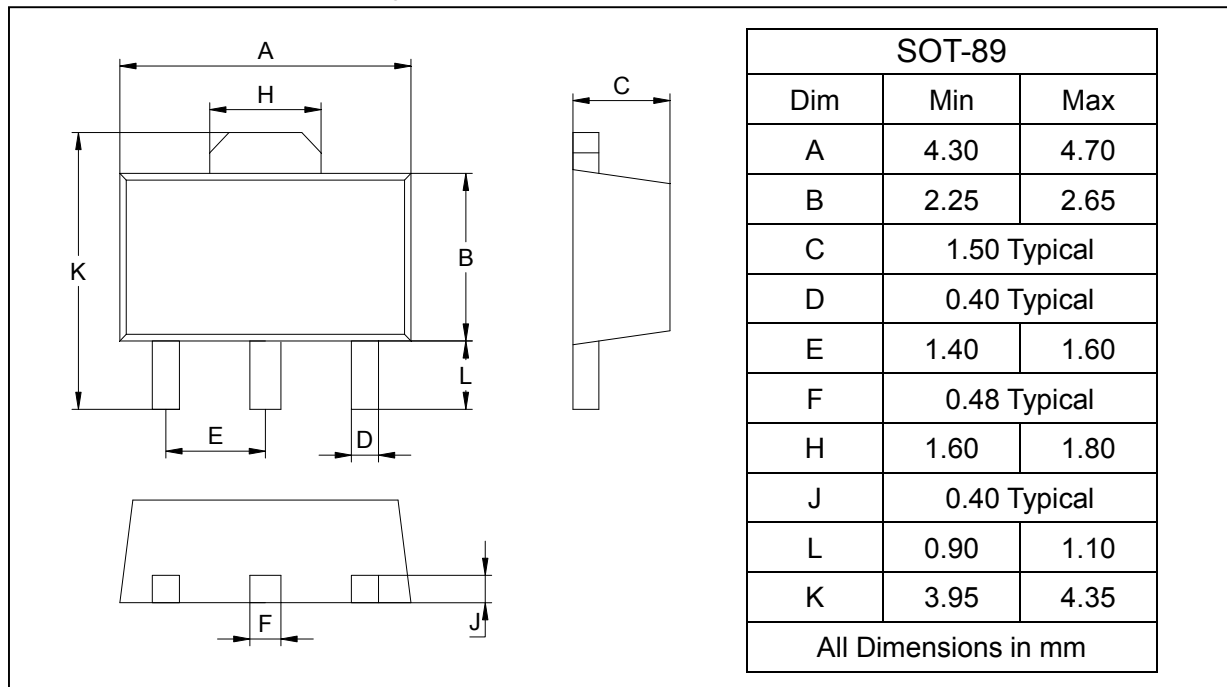
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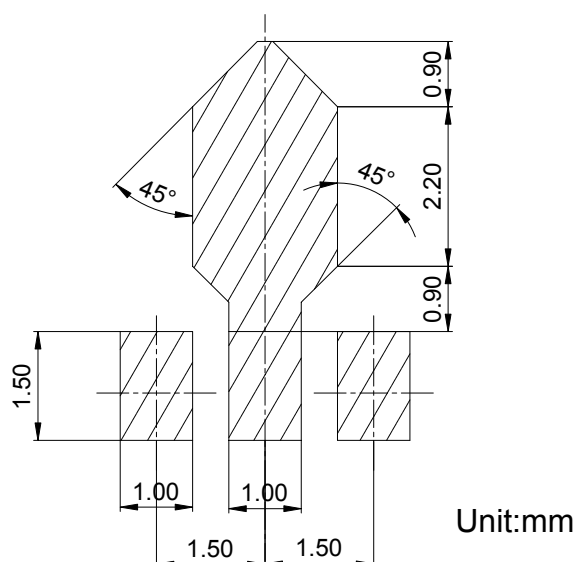
PACKAGE OUTLINE

Plastic surface mounted package

SOT-89



SOLDERING FOOTPRINT



PACKAGE INFORMATION

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