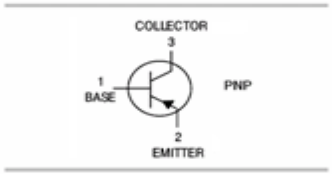
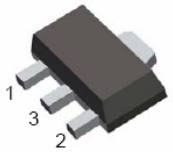
PNP Epitaxial Planar Silicon Transistors 2SB1073

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.
- RoHS compliant with Halogen-free

HF





SOT-89

ORDERING INFORMATION

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

MAXIMUM RATING @ Ta=25℃ 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	℃

PNP Epitaxial Planar Silicon Transistors 2SB1073

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=-10μA 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=-10μA 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

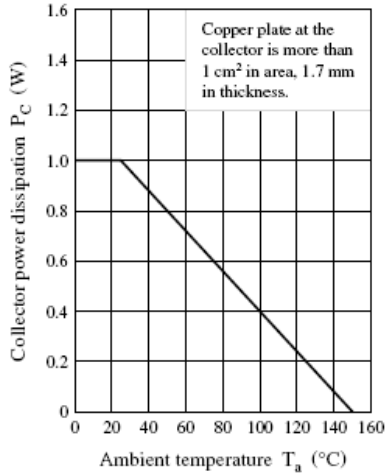
CLASSIFICATION OF h_{FE}

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

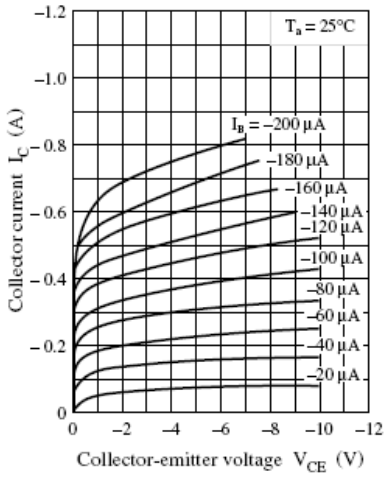
PNP Epitaxial Planar Silicon Transistors 2SB1073

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

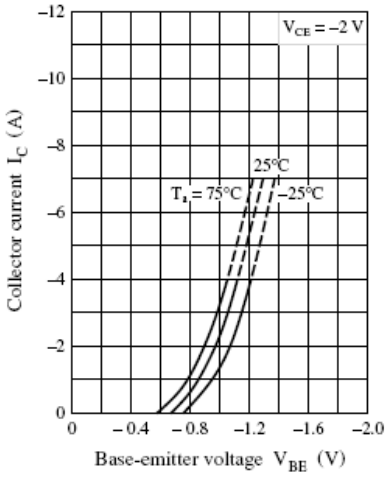
P_C — T_a



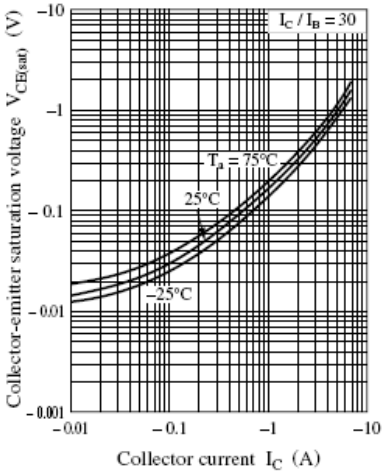
I_C — V_{CE}



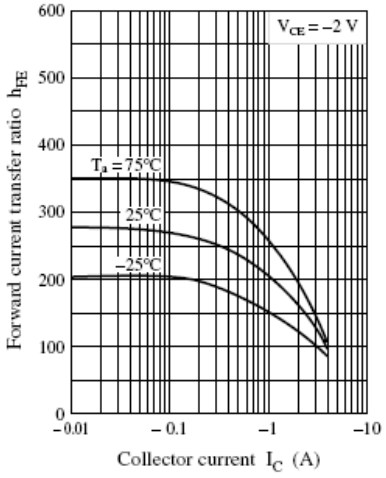
I_C — V_{BE}



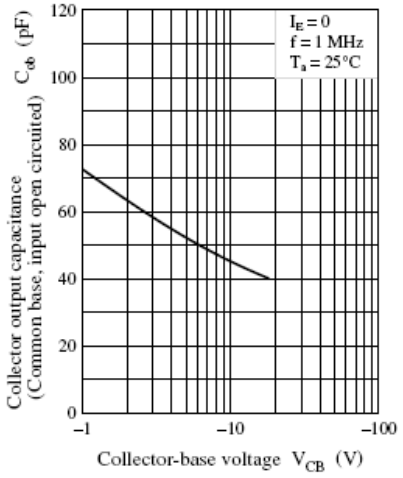
$V_{CE(sat)}$ — I_C



h_{FE} — I_C



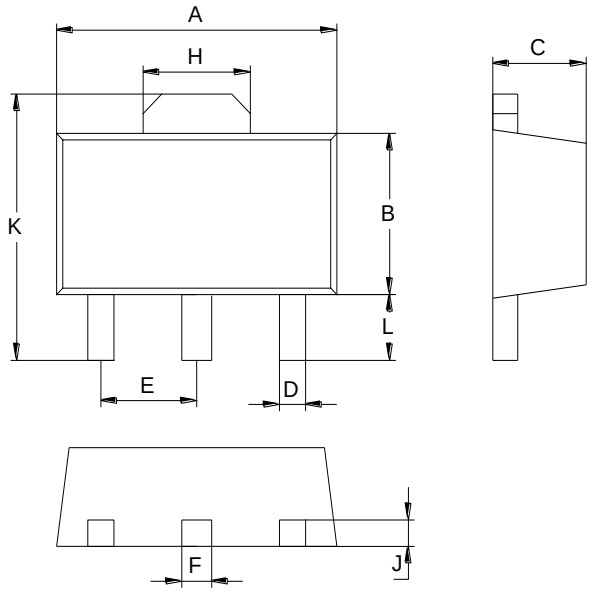
C_{ob} — V_{CB}



PNP Epitaxial Planar Silicon Transistors 2SB1073

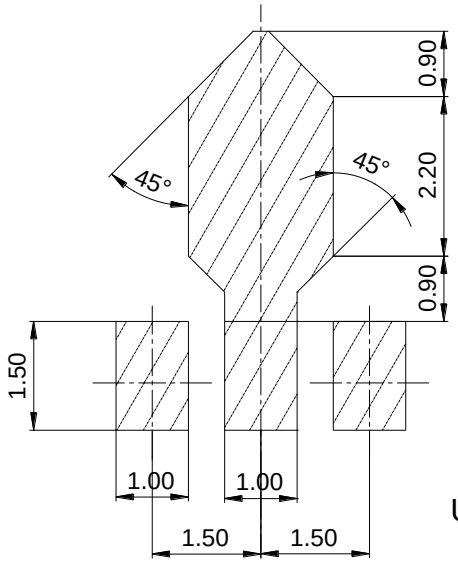
PACKAGE OUTLINE

Plastic surface mounted package SOT-89



SOT-89		
Dim	Min	Max
A	4.30	4.70
B	2.25	2.65
C	1.30	1.70
D	0.30	0.50
E	1.40	1.60
F	0.38	0.58
H	1.60	1.80
J	0.30	0.50
L	0.90	1.10
K	3.95	4.35
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit:mm

PACKAGE INFORMATION

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