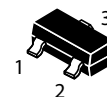
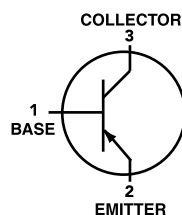


PNP General Purpose Transistors

 Lead(Pb)-Free



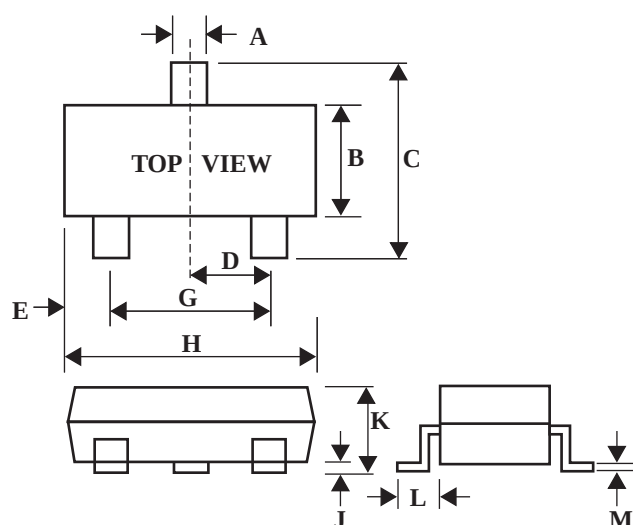
SOT-323

MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

Rating	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	-35	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-500	mA
Total Device Dissipation $T_A=25^{\circ}\text{C}$	P_D	100	mW
Junction Temperature	T_j	+150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^{\circ}\text{C}$

SOT-323 Outline Dimension

Unit:mm



SOT-323		
Dim	Min	Max
A	0.30	0.40
B	1.15	1.35
C	2.00	2.40
D	-	0.65
E	0.30	0.40
G	1.20	1.40
H	1.80	2.20
J	0.00	0.10
K	0.80	1.00
L	0.42	0.53
M	0.10	0.25

ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage $I_C = -100\mu A, I_E = 0A$	$V_{(BR)CBO}$	-35	-	-	V
Collector-Emitter Breakdown Voltage $I_C = -1mA, I_B = 0A$	$V_{(BR)CEO}$	-30	-	-	V
Emitter-Base Breakdown Voltage $I_E = -100\mu A, I_C = 0A$	$V_{(BR)EBO}$	-5.0	-	-	V
Collector Cutoff Current $V_{CB} = -35V, I_E = 0A$	I_{CBO}	-	-	-0.1	μA
Emitter Cutoff Current $V_{EB} = -5V, I_C = 0A$	I_{EBO}	-	-	-0.1	μA

ON CHARACTERISTICS

Collector-Emitter Saturation Voltage $I_C = -100mA, I_B = -10mA$	$V_{CE(sat)}$	-	-	-0.25	V
DC Current Transfer Ration $V_{CE} = -1V, I_C = -100mA$	h_{FE}	70	-	240	

SMALL-SIGNAL CHARACTERISTICS

Transition frequency $V_{CE} = -6V, I_C = -20mA$	f_T	-	200	-	MHz
Collector output capacitance $V_{CB} = -6V, I_E = 0, f = 1MHz$	C_{ob}	-	13	-	pF

CLASSIFICATION h_{FE}

Rank	O	Y
Range	70-140	120-240
Marking	ZO	ZY