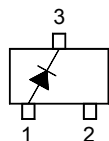
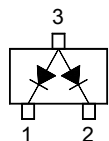
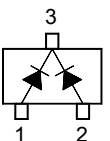
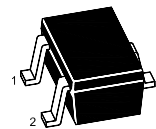
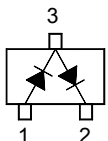


Features

- Low forward voltage
- Halogen and Antimony Free(HAF), RoHS compliant

BAT54WX

BAT54AWX

BAT54CWX

BAT54SWX

SOT-323 Plastic Package
Applications

- Ultra high-speed switching
- Voltage clamping
- Protection circuits

Marking Code :

BAT54WX : "L4"

BAT54AWX : "L42"

BAT54CWX : "L43"

BAT54SWX : "L44"

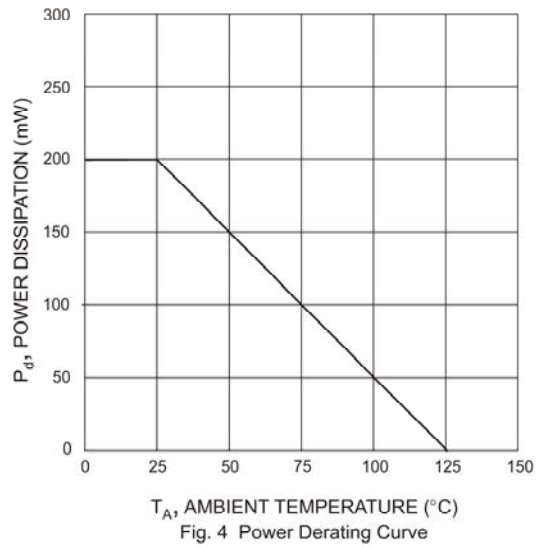
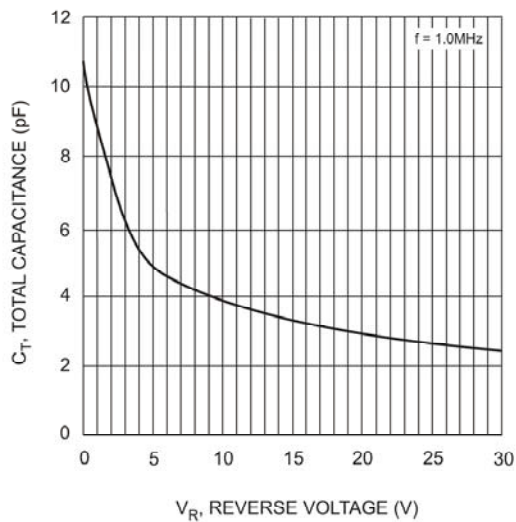
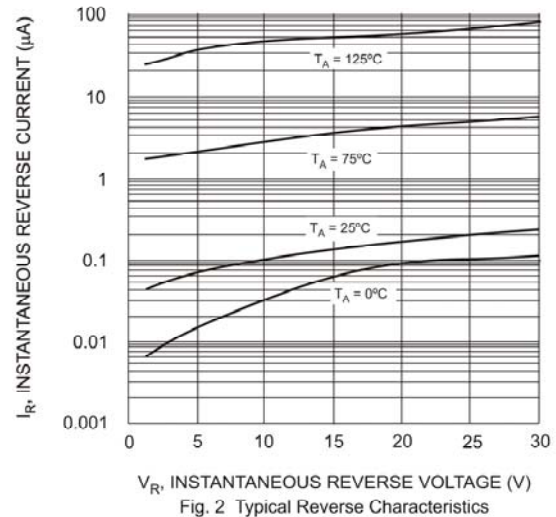
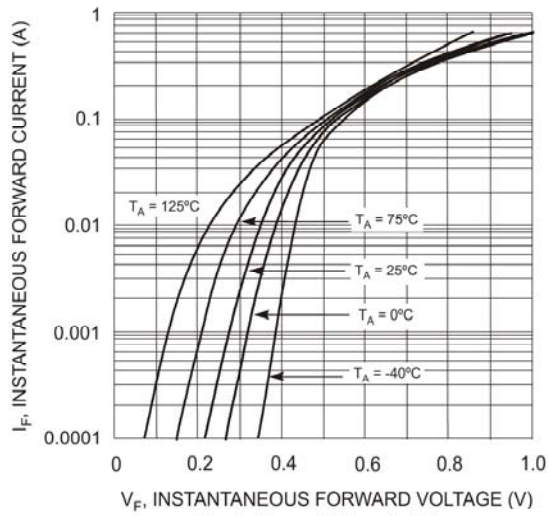
Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	30	V
Reverse Voltage	V _R	30	V
Forward Current	I _F	200	mA
Repetitive Peak Forward Current	I _{FRM}	300	mA
Peak Forward Surge Current (t _p = 10 ms)	I _{FSM}	600	mA
Total Power Dissipation	P _{tot}	200	mW
Junction Temperature	T _j	125	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

Characteristics at T_a = 25 °C

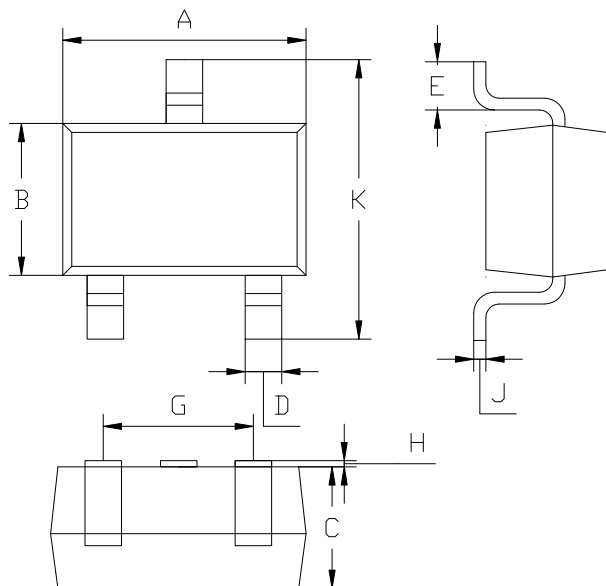
Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 0.1 mA at I _F = 1 mA at I _F = 10 mA at I _F = 30 mA at I _F = 100 mA	V _F	- - - - -	240 320 400 500 1000	mV
Reverse Breakdown Voltage at I _R = 100 μA	V _{(BR)R}	30	-	V
Reverse Current at V _R = 25 V	I _R	-	2	μA
Total Capacitance at V _R = 1 V, f = 1 MHz	C _T	-	10	pF
Reverse Recovery Time at I _F = 10 mA through I _R = 10 mA to I _R = 1 mA, R _L = 100 Ω	t _{rr}	-	5	ns

Typical Characteristics



Package Outline Dimensions(unit:mm)

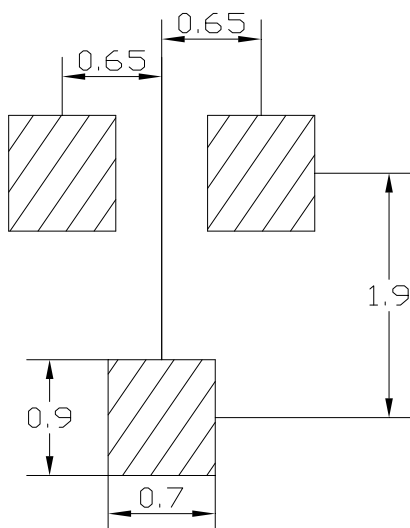
SOT-323



SOT-323		
Dim	Min	Max
A	1.80	2.20
B	1.15	1.35
C	0.90	1.10
D	0.15	0.35
E	0.25	0.40
G	1.20	1.40
H	0.02	0.10
J	0.05	0.15
K	2.20	2.40

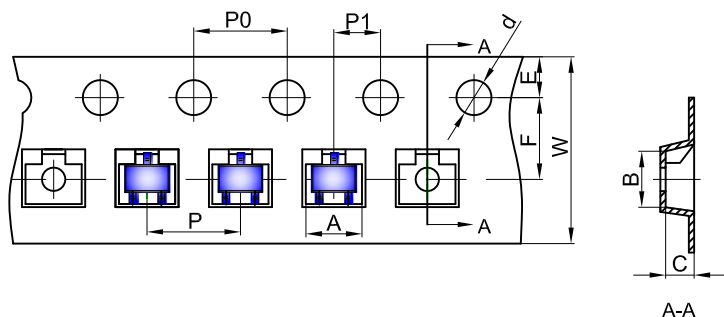
Mounting Pad Layout(unit:mm)

SOT-323



SOT-323 Tape and Reel

SOT-323 Embossed Carrier Tape

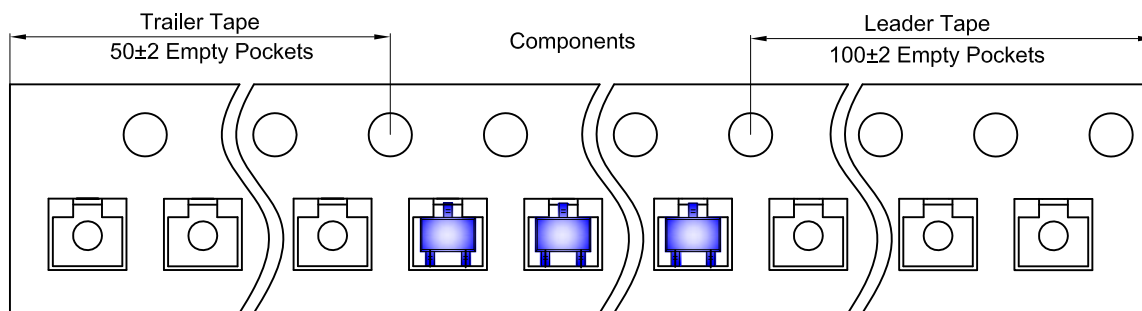


Packaging Description:

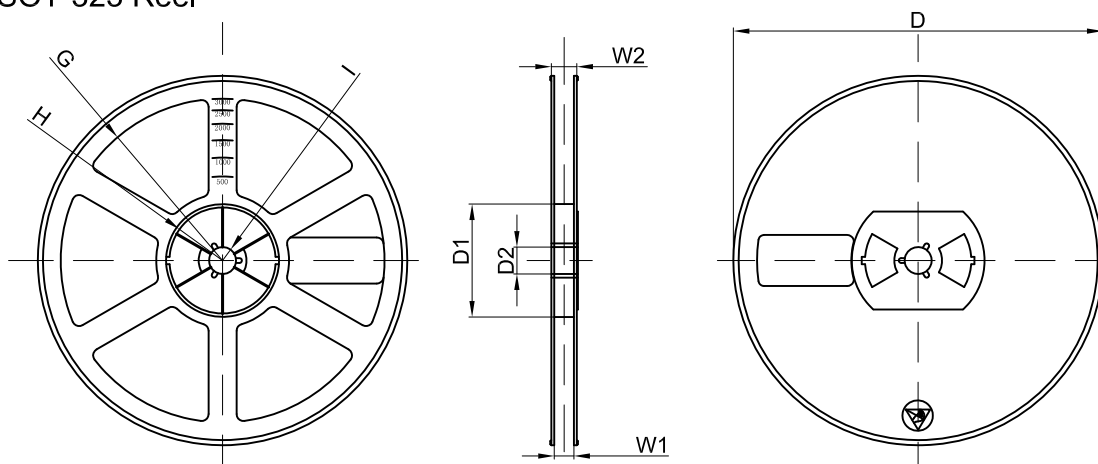
SOT-323 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-323	2.25	2.55	1.19	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00

SOT-323 Tape Leader and Trailer



SOT-323 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7" Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	