



SOT-323 Plastic-Encapsulate Diodes

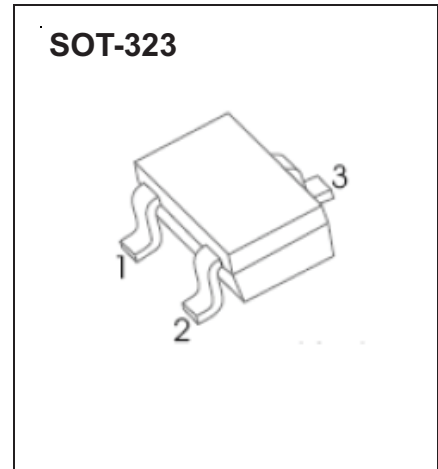
BAP64-04W,05W,06W Pin Diode

FEATURE

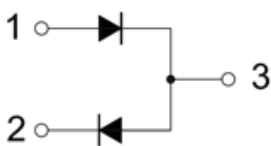
- High voltage ,current controlled
- RF resistor for RF attenuators and switches
- Low diode capacitance
- Low diode forward resistance
- Low series inductance
- For applications up to 3 GHz

APPLICATION

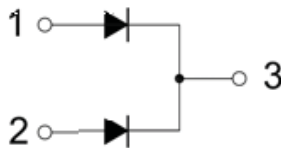
- RF attenuators and switches



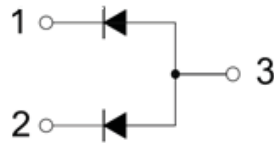
BAP64-04W



BAP64-05W



BAP64-06W



BAP64-04W	BAP64-05W	BAP64-06W

Solid dot = Green molding compound device,if none, the normal device.

Maximum Ratings ($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Continuous reverse voltage	V_R	175	V
Continuous forward current	I_F	100	mA
Power dissipation	P_D	200	mW
Thermal resistance from junction to ambient	$R_{\theta JA}$	625	$^{\circ}\text{C}/\text{W}$
Operation Junction and Storage Temperature Range	T_J, T_{stg}	-55~+150	$^{\circ}\text{C}$

MOSFET ELECTRICAL CHARACTERISTICS

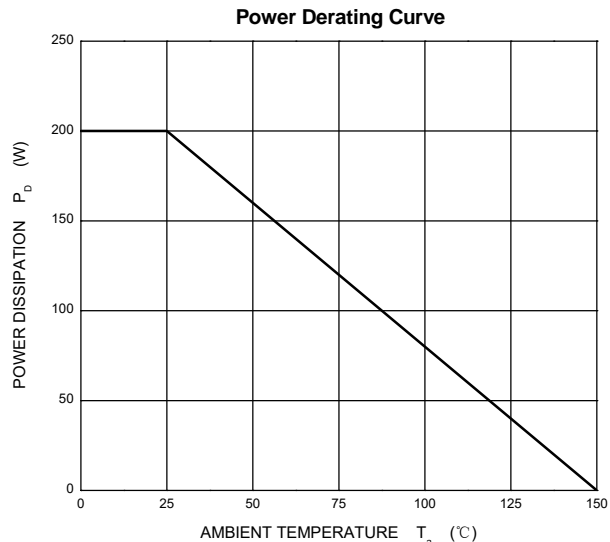
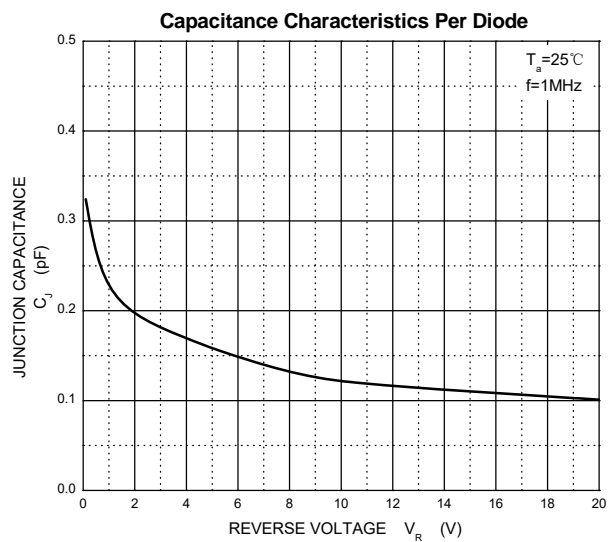
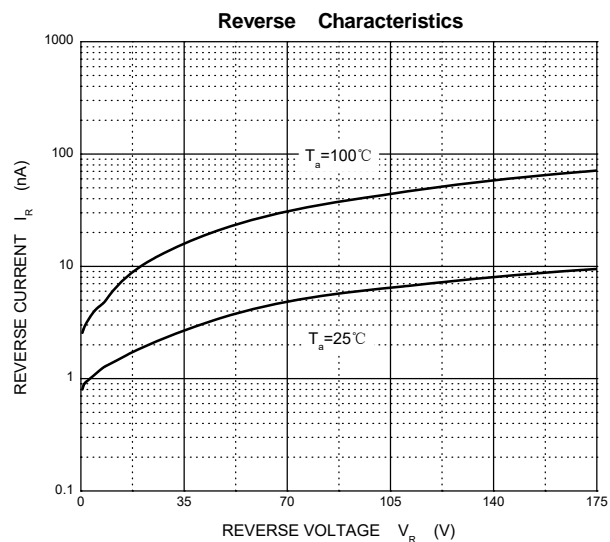
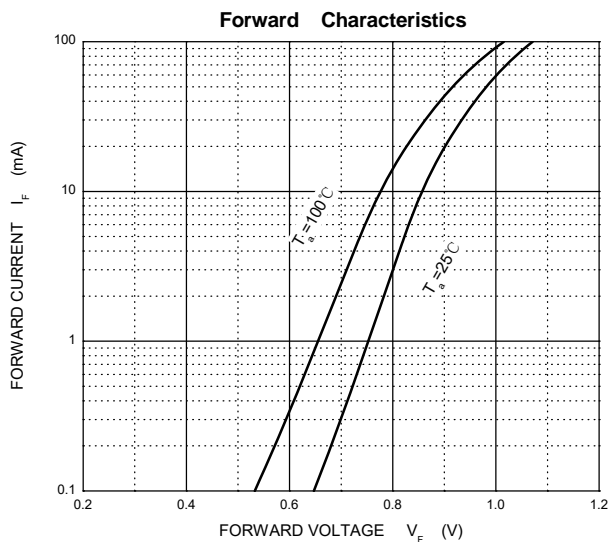
$T_a=25\text{ }^{\circ}\text{C}$ unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=50\text{mA}$			1.1	V
Reverse Current	I_{R1}	$V_{R1}=175\text{V}$			10	μA
	I_{R2}	$V_{R2}=20\text{V}$			1	
Diode Capacitance	C_{d1}	$V_R=0\text{V}, f=1\text{MHz}$		0.52		pF
	C_{d2}	$V_R=1\text{V}, f=1\text{MHz}$			0.5	
	C_{d3}	$V_R=20\text{V}, f=1\text{MHz}$			0.35	
Diode Forward Resistance (note 1)	r_{d1}	$I_F=0.5\text{mA}, f=100\text{MHz}$			40	Ω
	r_{d2}	$I_F=1\text{mA}, f=100\text{MHz}$			20	
	r_{d3}	$I_F=10\text{mA}, f=100\text{MHz}$			3.8	
	r_{d4}	$I_F=100\text{mA}, f=100\text{MHz}$			1.35	
Charge Carrier Life Time	τ_L	When switched from $I_F=10\text{mA}$ to $I_R=6\text{mA}$; $R_L=100\Omega$; measured at $I_R=3\text{mA}$		1.55		μs
Series Inductance	L_S	$I_F=10\text{mA}, f=100\text{MHz}$ BAP64-04W/06W		1.6		nH
		BAP64-05W		1.4		

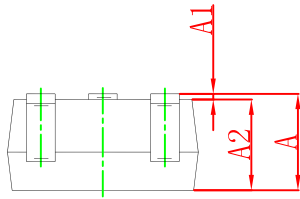
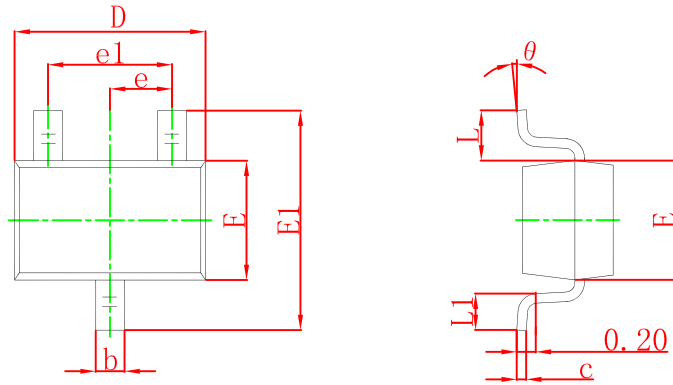
Note:

1. Guaranteed on AQL basis: inspection level S4, AQL 1.0.

Typical Characteristics

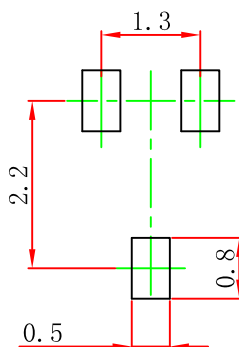


SOT-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

SOT-323 Suggested Pad Layout



Note:

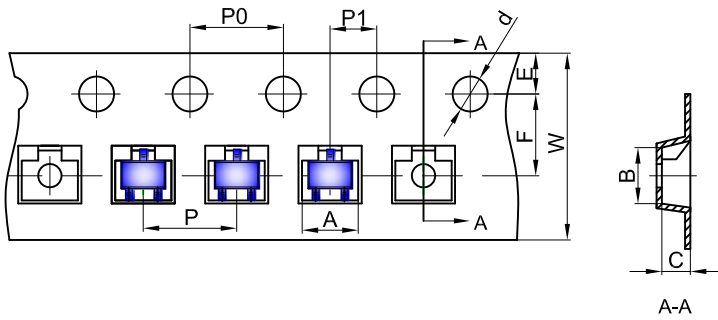
1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.

NOTICE

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SOT-323 Tape and Reel

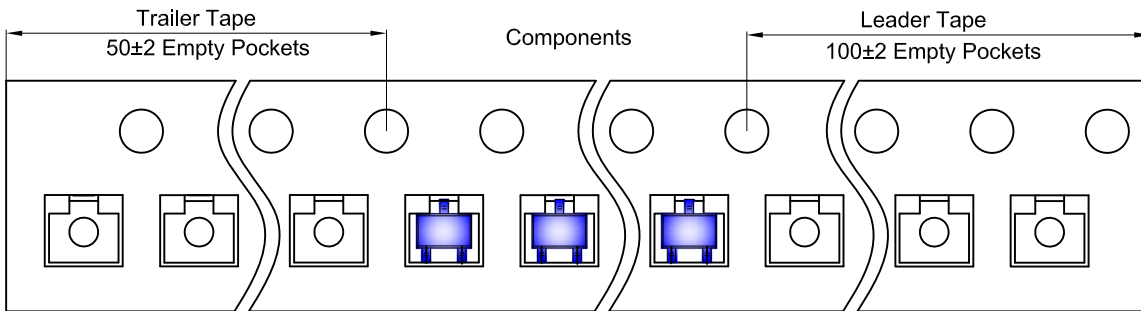
SOT-323 Embossed Carrier Tape



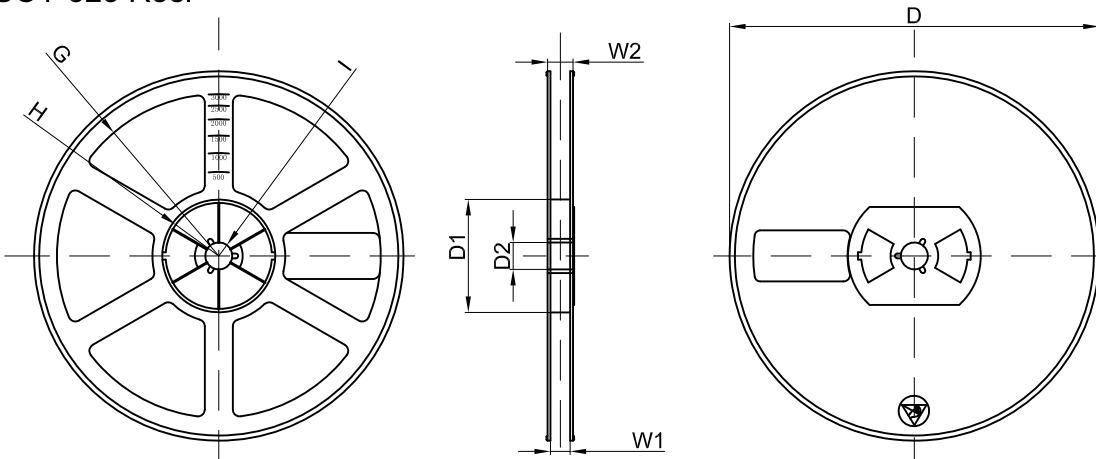
Packaging Description:
 SOT-323 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. 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	

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