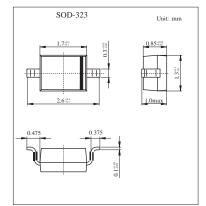


Surface Mount Fast Switching Diodes 1N4148WS

Features

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance



■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Non-repetitive peak reverse voltage	Vrm	100	V
Peak repetitive reverse voltage	Vrrm		
Working peak reverse voltage	Vrwm	75	V
DC blocking voltage	Vr		
RMS reverse voltage	VR(RMS)	53	V
Average rectified output current	lo	150	mA
Forward continuous current	lfм	300	mA
Non-repetitive peak forward surge current@ t = 1.0s	IFSM	1.0	А
@ t = 1.0 us		3.0	A
Power dissipation *	Pd	350	mW
Typical thermal resistance, junction to ambient air*	RèJA	650	℃/W
Operating and storage temperature range	Tj,Tstg	-65 to +150	ĉ

* Part mounted on FR-4 PC board with recommended pad layout,

■ Electrical Characteristics Ta = 25 °C

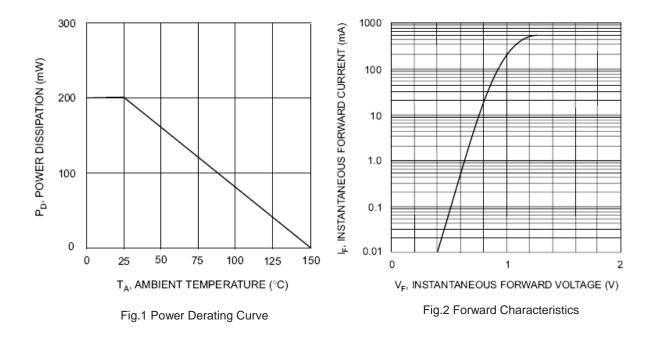
Parameter	Symbol	Testconditons	Min	Тур	Max	Unit
Reverse Breakdown Voltage	V(BR)R	IR = 1.0 μ A	75			V
		IF = 10mA			0.715	
Forwarad voltage	Vғм	IF = 10mA			0.855	V
i olwarad voltage		IF = 50mA			1.0	
		IF = 150mA			1.25	
	Irm	VR = 75V			1.0	
Peak reverse current		VR = 75V, Tj = 150 ℃			50	μA
		VR = 25V, Tj = 150 ℃			30	
		VR = 20V			25	nA
Capacitance	Ст	VR = 0, f = 1.0MHz			2.0	pF
Reverse recovery time	trr	IF = IR =10mA,Irr = 0.1 \times IR, RL = 100 Ù			4.0	ns

Marking

Marking

T4

Typical Characteristics



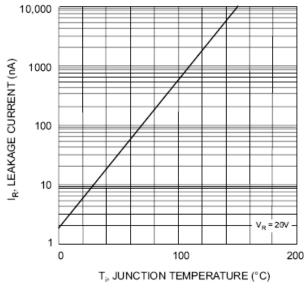
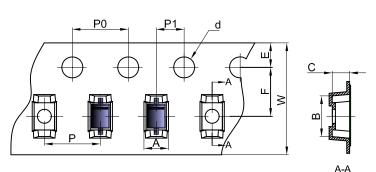


Fig. 3 Leakage Current vs Junction Temperature

SOD-323 Tape and reel

SOD-323 Embossed Carrier Tape

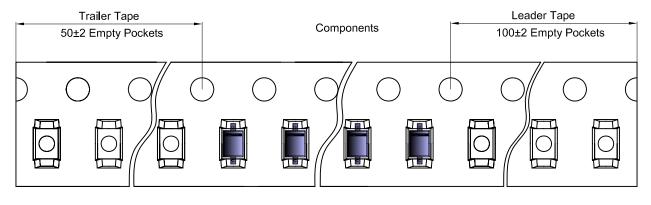


Packaging Description:

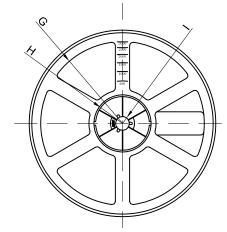
SOD-323 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts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

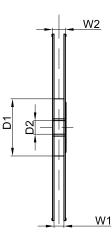
Dimensions are in millimeter										
Pkg type	А	В	С	d	Е	F	P0	Р	P1	W
SOD-323	1.46	2.90	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00
(Tolerance)	+/-0.05	+/-0.05	+/-0.05	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+0.3/-0.1

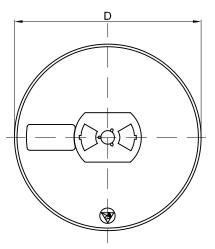
SOD-323 Tape Leader and Trailer



SOD-323 Reel







Dimensions are in millimeter									
Reel Option	D	D1	D2	G	н	I	W1	W2	
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30	
Tolerance	+/-2	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1	

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	210×208×203	180,000 pcs	440×440×230	7.75