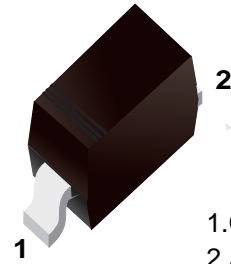


■ Switching Diodes

■ Features

- Fast Switching Speed
- For General Purpose Switching Applications.
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion



1.Cathode
2.Anode

■ Simplified outline(SOD-323)

Top View 

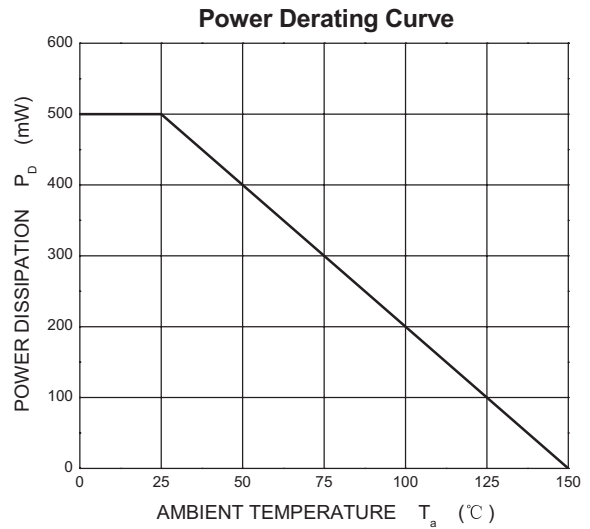
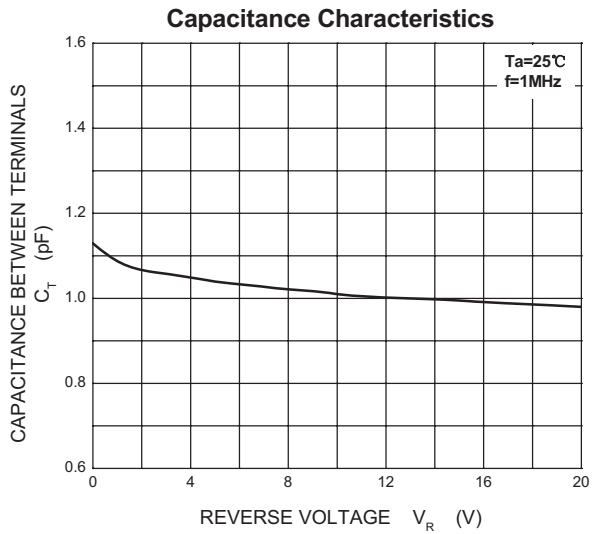
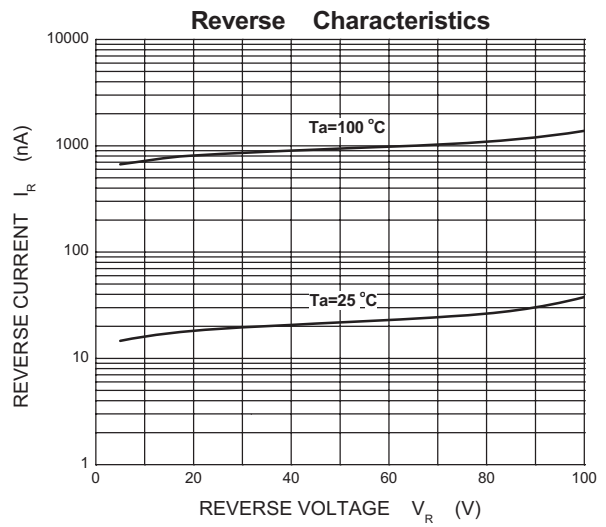
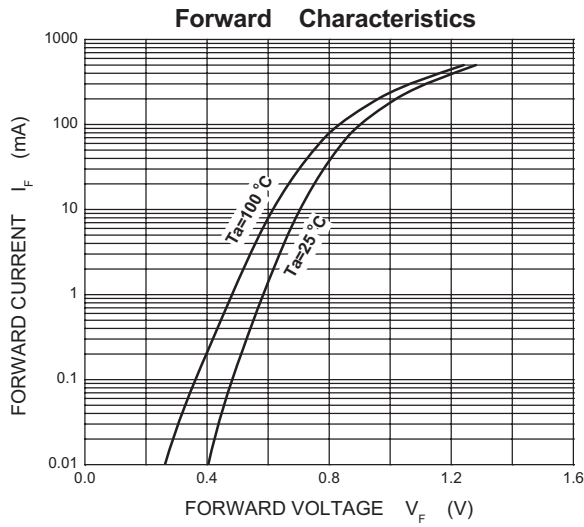
■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_{RM}	100	V
Peak Repetitive Peak Reverse Voltage	V_{RRM}	100	
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	71	mA
Average Rectified Output Current	I_o	150	
Forward Continuous Current	I_{FM}	300	A
Peak Forward Surge Current @ t=1us	I_{FSM}	2	
@ t=1s		1	
Power Dissipation	P_d	500	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	250	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature range	T_{stg}	-55 to 150	

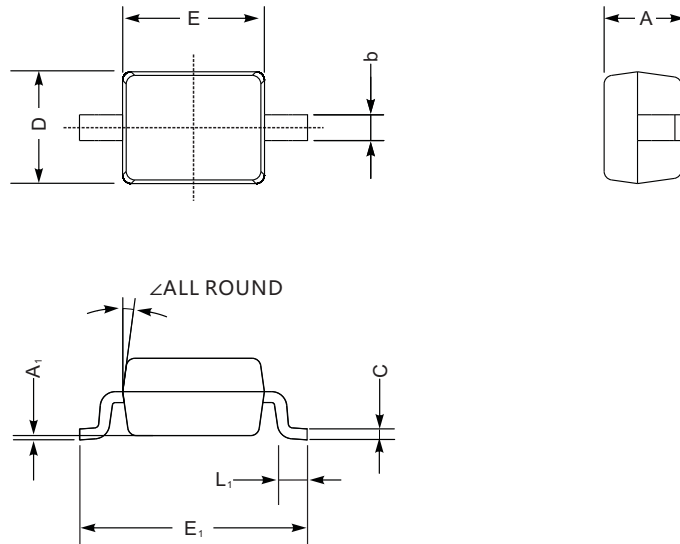
■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	$I_R = 100 \mu A$	100			V
Forward voltage	V_{F1}	$I_F = 1 mA$			0.715	
	V_{F2}	$I_F = 10 mA$			0.855	
	V_{F3}	$I_F = 50 mA$			1	
	V_{F4}	$I_F = 150 mA$			1.25	
Reverse voltage leakage current	I_{R1}	$V_R = 75 V$			1	μA
	I_{R2}	$V_R = 20 V$			25	nA
Junction capacitance	C_j	$V_R = 0 V, f = 1 MHz$			2	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 10 mA, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$			4	ns

■ Typical Characteristics



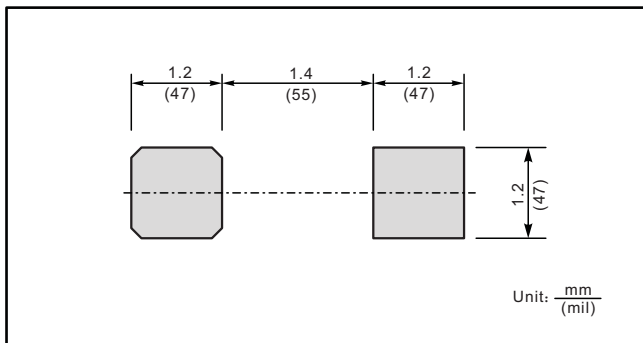
■ SOD-323



SOD-323 mechanical data

UNIT		A	C	D	E	E ₁	b	L ₁	A ₁	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	

■ The recommended mounting pad size



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Diodes - General Purpose, Power, Switching category](#):

Click to view products by [SLKORMICRO manufacturer](#):

Other Similar products are found below :

[MCL4151-TR3](#) [MMBD3004S-13-F](#) [RD0306T-H](#) [1N3611](#) [NTE156A](#) [NTE574](#) [NTE6244](#) [1SS193,LF](#) [1SS400CST2RA](#) [SDAA13](#)
[SHN2D02FUTW1T1G](#) [LS4151GS08](#) [1N4449](#) [1N456A](#) [1N4934-E3/73](#) [1N914BTR](#) [RFUH20TB3S](#) [D291S45T](#) [BAV300-TR](#) [BAW56DWQ-](#)
[7-F](#) [BAW56M3T5G](#) [BAW75-TAP](#) [MM230L-CAA](#) [IDW40E65D1](#) [JAN1N3600](#) [JAN1N4454UR-1](#) [LL4151-GS18](#) [SMMSD4148T3G](#)
[BYW95B/A52A](#) [NSVDAN222T1G](#) [CDSZC01100-HF](#) [LL4150-M-08](#) [1N4454-TR](#) [BAV70HDW-7](#) [BAS28-7](#) [JANTX1N6640](#) [BAW56HDW-](#)
[13](#) [BAS28 TR](#) [VS-HFA04SD60STR-M3](#) [NSVM1MA152WKT1G](#) [1SS388-TP](#) [RGP30D-E3/73](#) [VS-8EWF02S-M3](#) [BAV99TQ-13-F](#)
[BAV99HDW-13](#) [MMDB30-E28X](#) [IDP20C65D2XKSA1](#) [LS4148](#) [IDV15E65D2](#) [NSVM1MA152WAT1G](#)