

Schottky Diode

FEATURES

- ◆ Low Turn-on Voltage
- ◆ Designed for Surface Mount Application
- ◆ PN Junction Guard Ring for Transient and ESD Protection
- ◆ Fast Switching

MECHANICAL DATA

- ◆ Case: SOD-323
- ◆ Polarity: Color band denotes cathode end
- ◆ Mounting Position: Any

Pinning

1.Cathode	2.Anode
 SOD-323	

Marking Code

BAS40WS	43
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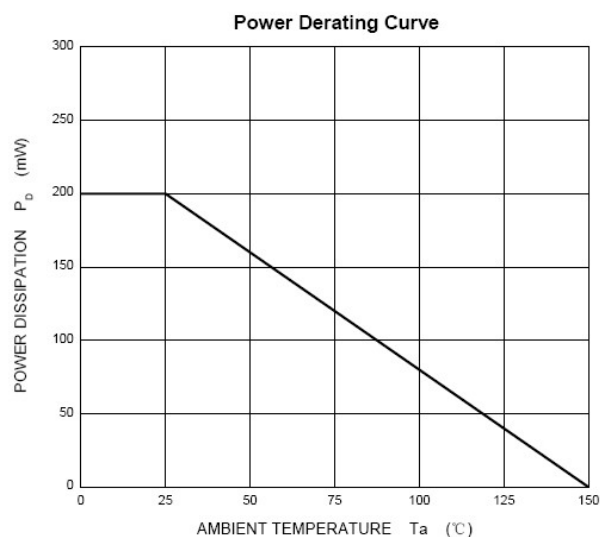
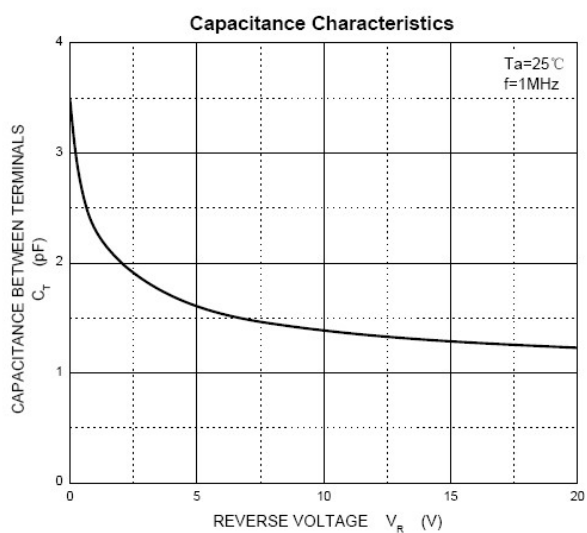
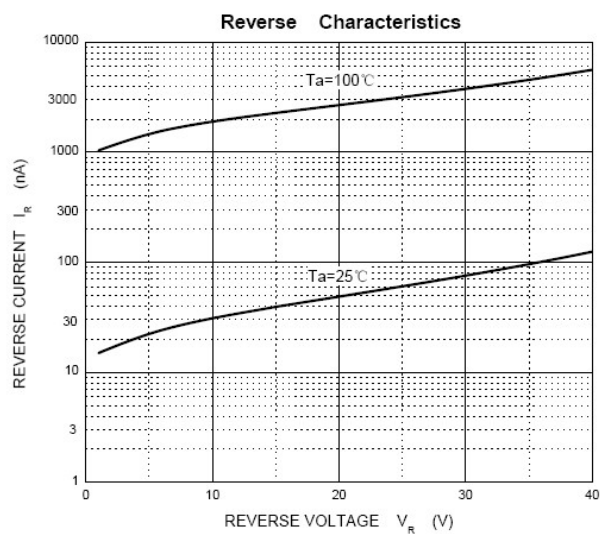
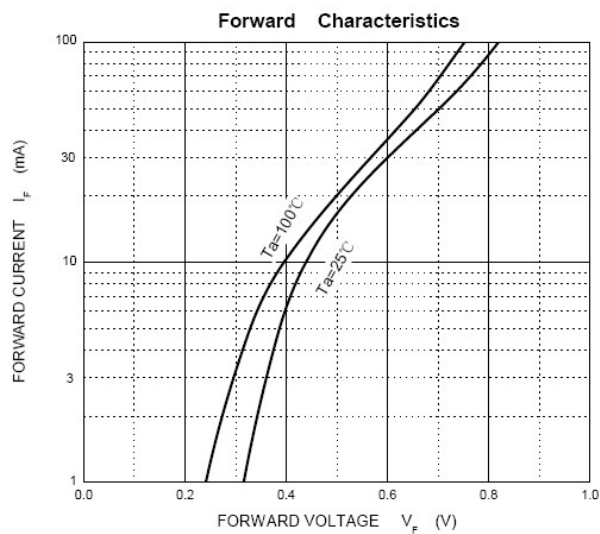
Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Reverse Voltage	V_R	40	V
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Power Dissipation	P_D	200	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	K/W
Forward Continuous Current	I_F	200	mA
Non repetitive Peak Forward Surge Current @ $t_p=8.3ms$; $T_A=25^\circ C$	I_{FSM}	600	mA
Operating junction temperature range	T_j	125	°C
Storage temperature range	T_{stg}	-65 to +150	°C

Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

Parameter	Test Condition	Symbols	Limits		Unit
			Min	Max	
Reverse Voltage	$I_R=10\mu A$	$V_{(BR)}$	40	-	V
Reverse Leakage Current	$V_R=30V$	I_R	-	200	nA
Forward Voltage	$I_F=1.0mA$	V_F	-	0.38	V
	$I_F=10mA$		-	0.50	
	$I_F=40mA$		-	1.00	
Reverse Recovery Time	$I_F=I_R=10mA$; $I_{rr}=0.1I_R$, $R_L=100\Omega$	t_{rr}	-	5	nS
Capacitance	$V_R=0V$, $f=1MHz$	C_T	-	5	pF

Typical Characteristics



Ordering information

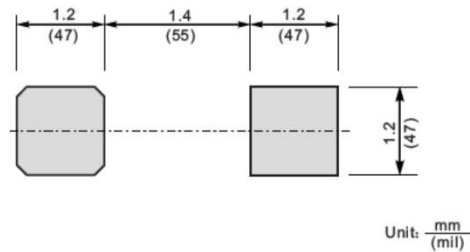
Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



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