

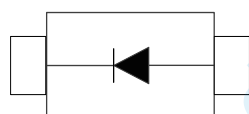
Schottky Barrier Diode

Description

These Schottky barrier diodes are optimized for low forward voltage drop and low leakage current that offers the most optimal power dissipation in applications. They are housed in spacing saving micro-packaging ideal for space constraint applications.

Features

- ✧ Low Forward Voltage Drop
- ✧ Low Reverse Current: 50 μ A (Max.) @ $V_R = 30$ V
- ✧ 2 A of Continuous Forward Current
- ✧ High Response Speed
- ✧ Halogen Free and RoHS Compliant



Circuit Diagram

Applications

- ✧ Low Voltage Rectification
- ✧ Switch Mode Power Supply
- ✧ Dc-Dc Converters
- ✧ Reverse Voltage and Current Protection



SOD323

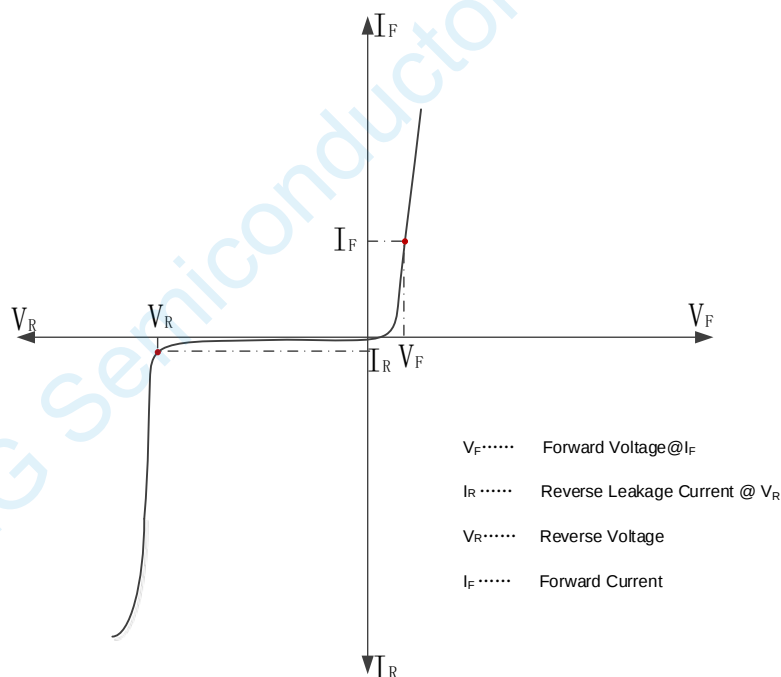
Absolute Maximum Rating ($T_A = 25$ °C, unless otherwise specified)

Parameter	Symbols	Value	Units
Maximum repetitive peak reverse voltage	VRRM	30	V
Reverse voltage	VR	30	V
Forward Continuous Current	IF	2	A
Maximum average forward rectified current	IFSM	9	A
Power Dissipation	PD	200	mW
Typical thermal resistance	R θ JA	625	°C/W
Junction Temperature	Tj	-55-+125	°C
Storage temperature range	TSTG	-55-+150	°C

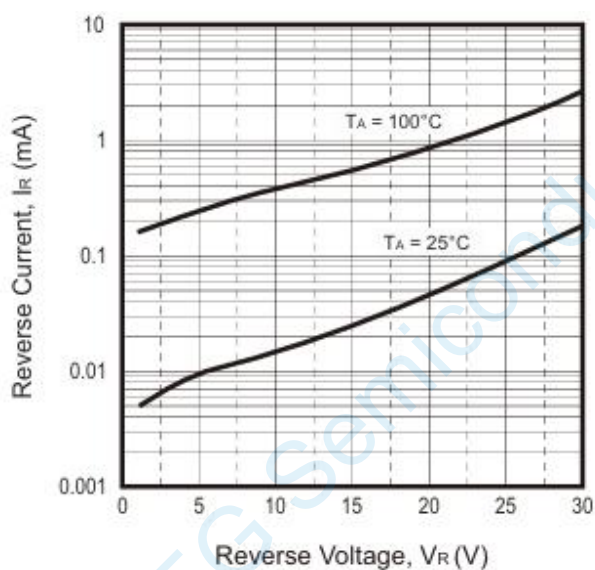
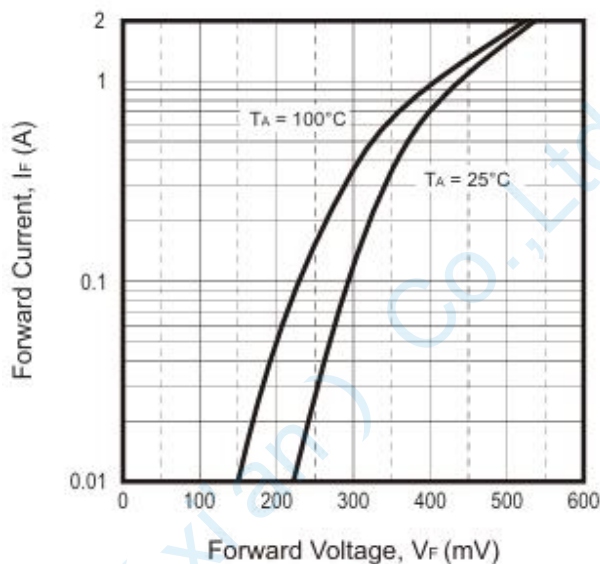
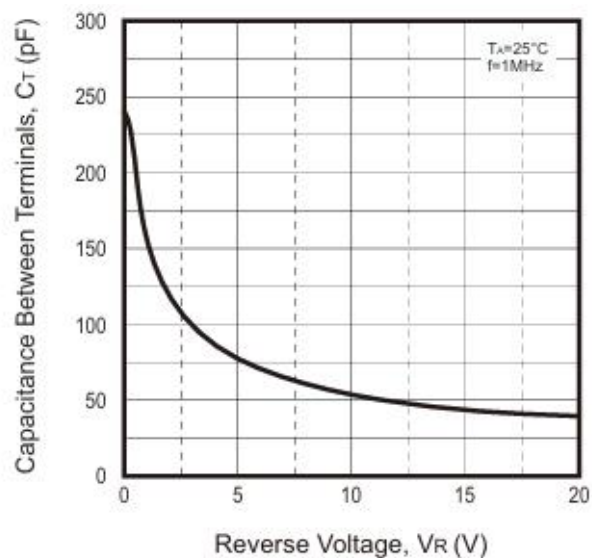
Electrical Characteristics ($T_A = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Maximum forward voltage	VF1	IF = 1A		0.4	0.45	V
	VF2	IF = 2A		0.5	0.55	
Maximum reverse breakdown voltage	VR	IR=1mA	30			V
Maximum reverse current	IR	VR=30V			50	uA
Type junction capacitance	CD	VR = 5V, f = 1MHz			120	pF

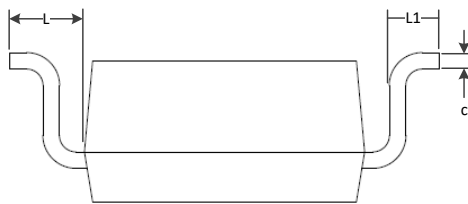
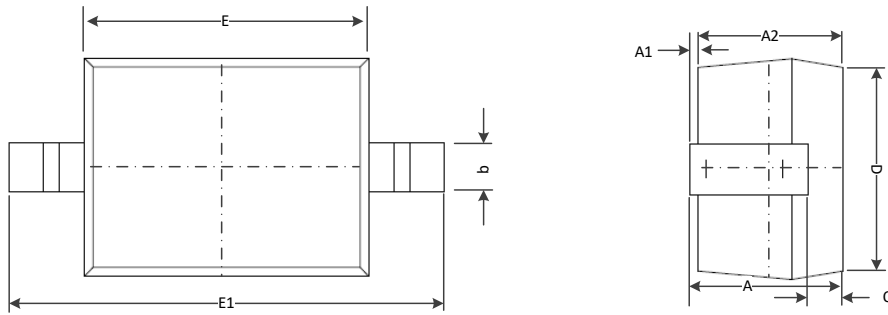
Electrical Parameters ($T_A = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)



Typical Characteristics ($T_A = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

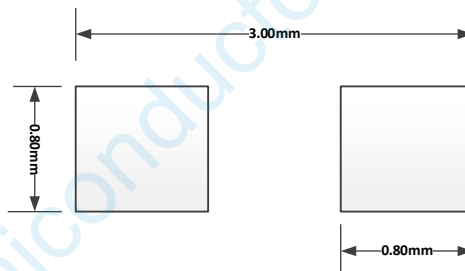


Package Information



COMMON DIMENSION (MM)			
PKG	SOD323		
Symbol	MIN.	NOM.	MAX.
A	0.800	0.900	1.000
A1	0.000	0.050	0.100
A2	0.800	0.850	0.900
b	0.250	0.300	0.350
c	0.080	-	0.150
D	1.200	1.300	1.400
E	1.600	1.700	1.800
E1	2.500	2.600	2.700
L	0.475 REF		
L1	0.250	0.260	0.270
Q	0.250 REF		

Recommend PCB Layout



Notes: This PCB Layout Is For Reference Purposes Only

Marking



Ordering Information

Part number	Material	Type	Reel size	MOQ	MOQ/internal box	MOQ/carton
OVB72TK31A	GREEN	T/R	7 inch	3k/reel	10reel= 30k/box	4boxes=120k/carton