

Schottky Barrier Diode

Description

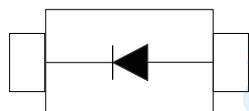
These Schottky barrier diodes are optimized for low forward voltage drop and low leakage current that offers the most optimal power dissipation in applications. They are housed in spacing saving micro-packaging ideal for space constraint applications.

Features

- ✧ Low Forward Voltage Drop
- ✧ Low Reverse Current: 1mA (Max.) @ $V_R = 40\text{ V}$
- ✧ 1 A of Continuous Forward Current
- ✧ High Response Speed
- ✧ Halogen Free and RoHS Compliant

Applications

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



Circuit Diagram



SOD123

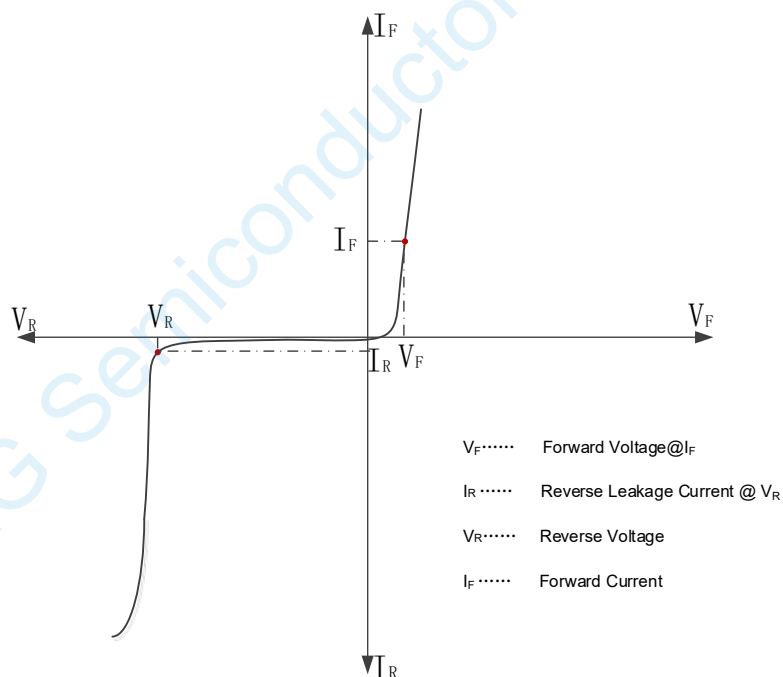
Absolute Maximum Rating ($T_A = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

Rating	Symbol	Value	Units
Reverse Voltage (DC)	V_R	40	V
Forward Current (DC)	I_F	1	A
Forward Surge Current (60 Hz @ 1 cycle)	I_{FSM}	9	A
Junction temperature	T_j	125	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-55~+150	$^{\circ}\text{C}$

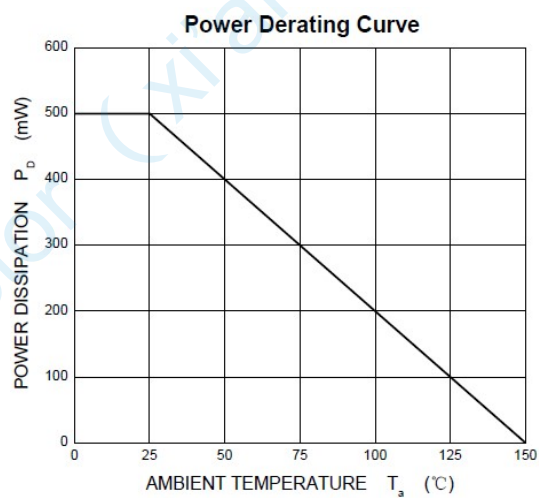
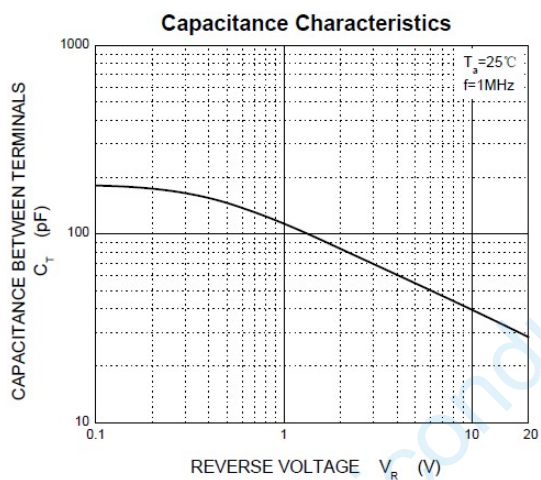
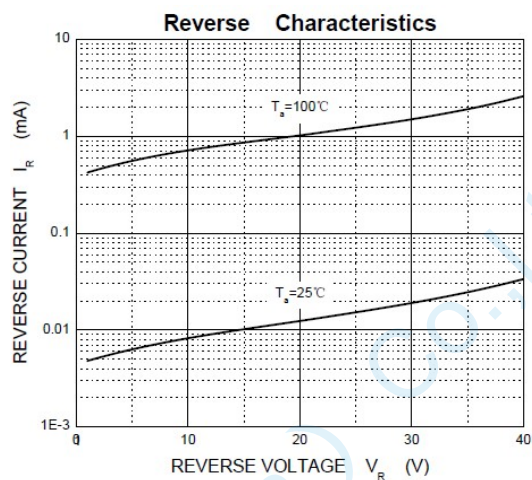
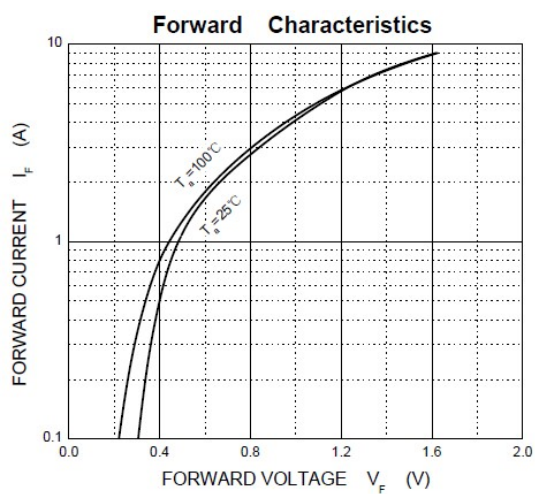
Electrical Characteristics ($T_A = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typical	Max.	Units
Reverse Breakdown Voltage	V_{BR}	$I_R=1\text{mA}$	40			V
Reverse Leakage	I_R	$V_R=40\text{V}$			1	mA
Forward Voltage	V_F	$I_F=1.0\text{A}$ $I_F=3.0\text{A}$			0.6 0.9	V
Total Capacitance	C_T	$V_R = 4\text{V}$, $f = 1\text{MHz}$			120	pF

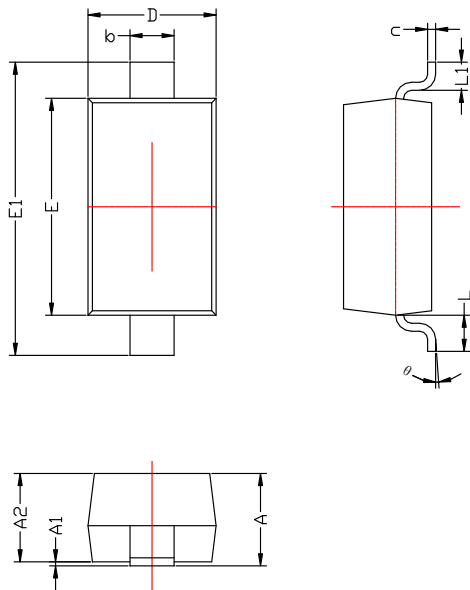
Electrical Parameters ($T_A = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)



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

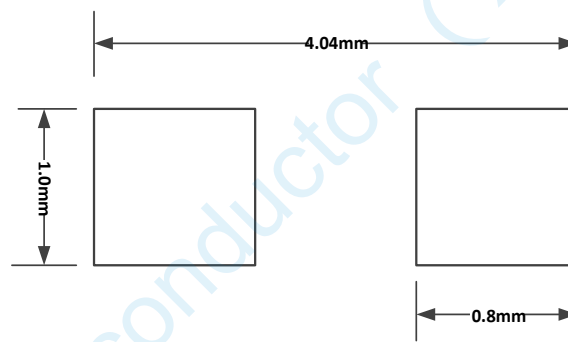


Package Information



SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.080	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500REF	
L1	0.250	0.450
θ	0°	8°

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
OVB35FK28A	GREEN	T/R	7 inch	3k/reel	10reel= 30k/box	4boxes=120k/carton