

Surface Mount Schottky Rectifier

Features

- Low forward conduction voltage
- Low power consumption, high efficiency
- High surge current resistance capability



Applications

- Low voltage high frequency switching power supply
- Low voltage high frequency inverter circuit
- Low voltage follow current circuit and protection circuit



Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Limit	Unit
Peak repetitive reverse voltage	V_{RRM}	45	V
Forward current	$I_{F(AV)}$	1.0	A
Non repetitive peak surge current	I_{FSM}	25	A
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-40~150	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Breakdown voltage	V_{BR}	$I_R=200\mu\text{A}$	45			V
Reverse current	I_R	$V_R=45\text{V}$		7	20	μA
Forward voltage	V_F	$I_F=1.0\text{A}$		0.53	0.56	V

Typical Characteristics

Fig.1 Forward Current Derating Curve

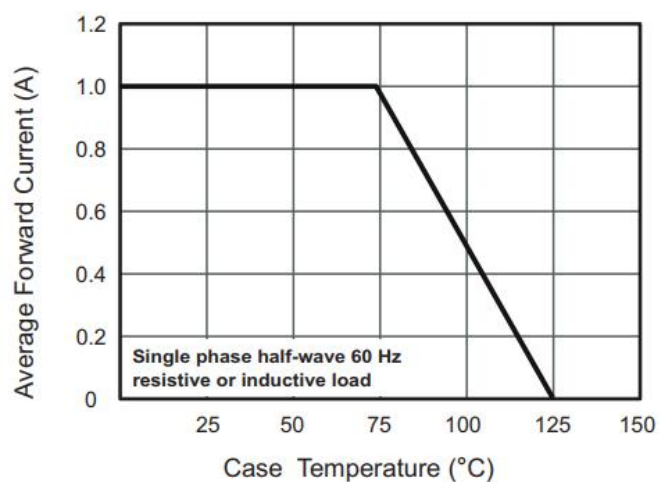


Fig.2 Typical Reverse Characteristics

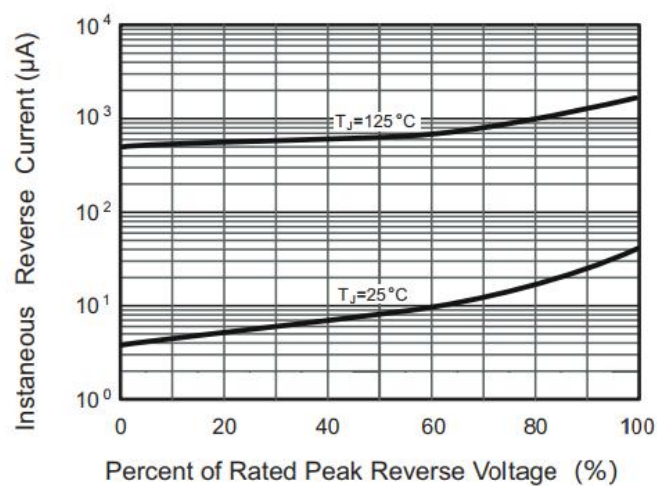
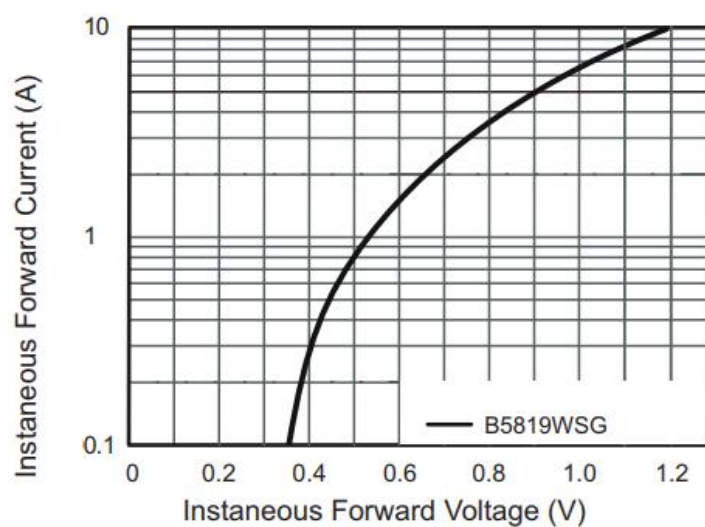


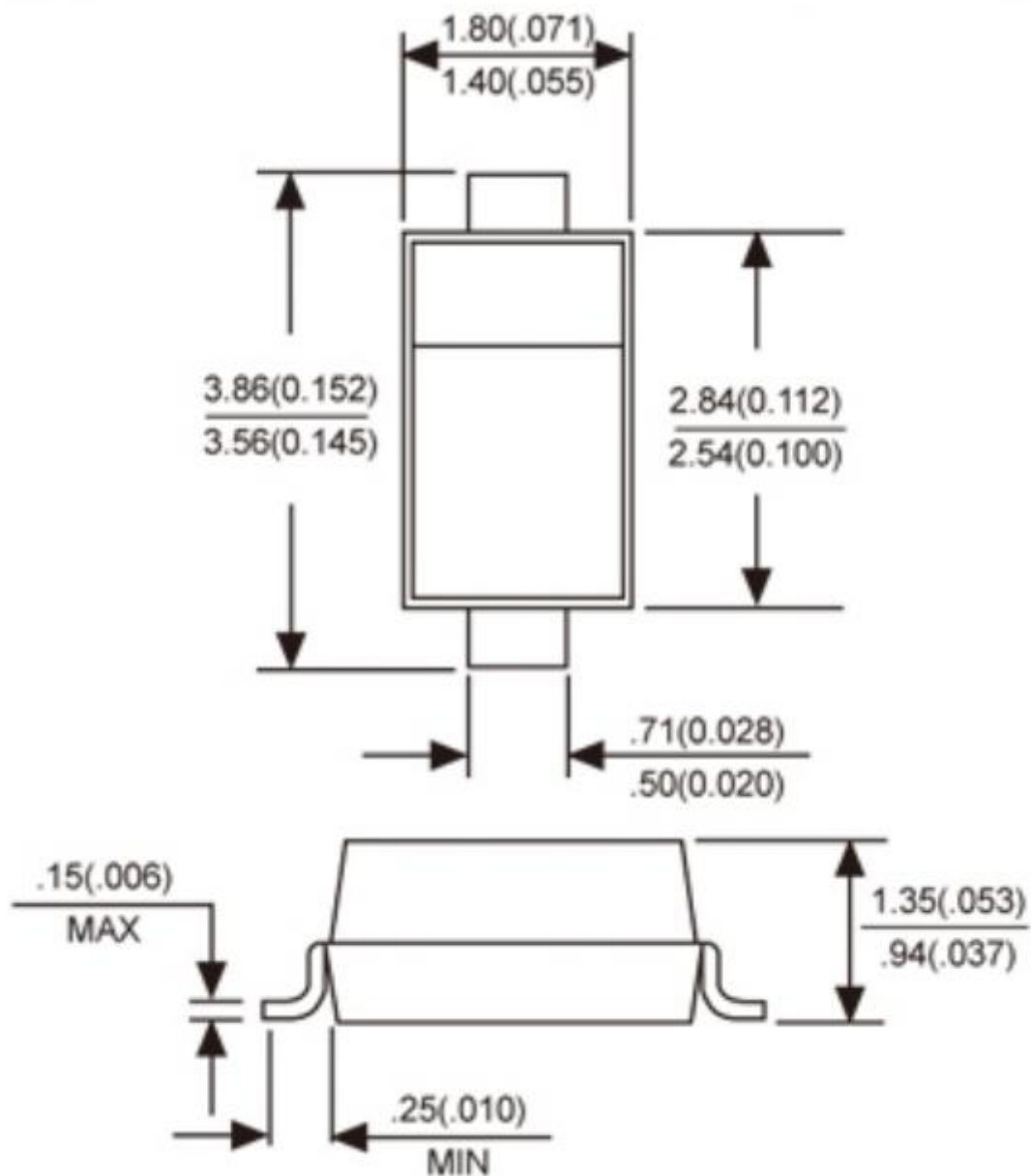
Fig.3 Typical Forward Characteristic



Package Information

SOD-123G

Dimensions in mm



Dimensions in millimeters and (inches)