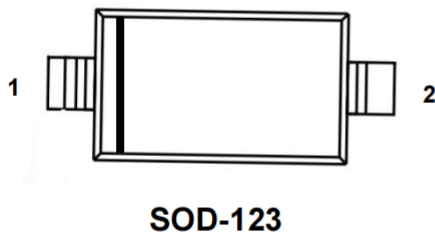


Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching
- Low Leakage Current
- RoHs Product

Applications

- surface mount schottky barrier rectifier
- Buck and Boost dc-dc Converters
- Low Voltage High Frequency Switching Power Supply
- Low Voltage High Frequency Invers Circuit
- Low Voltage Continued Circuit and Protection Circuit



Pin Configuration

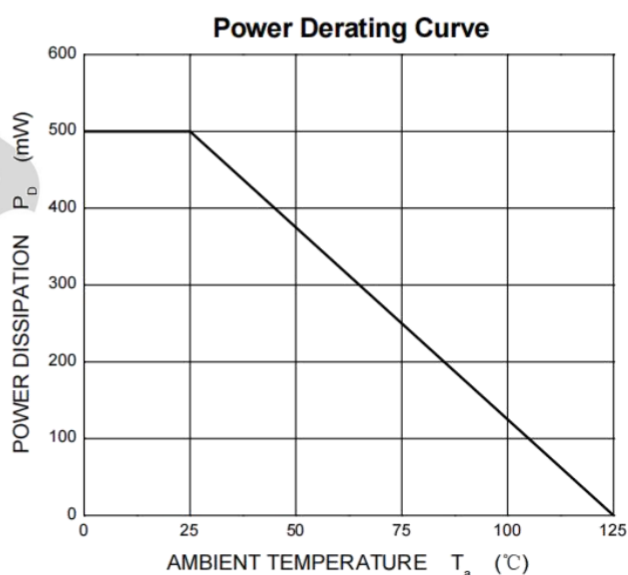
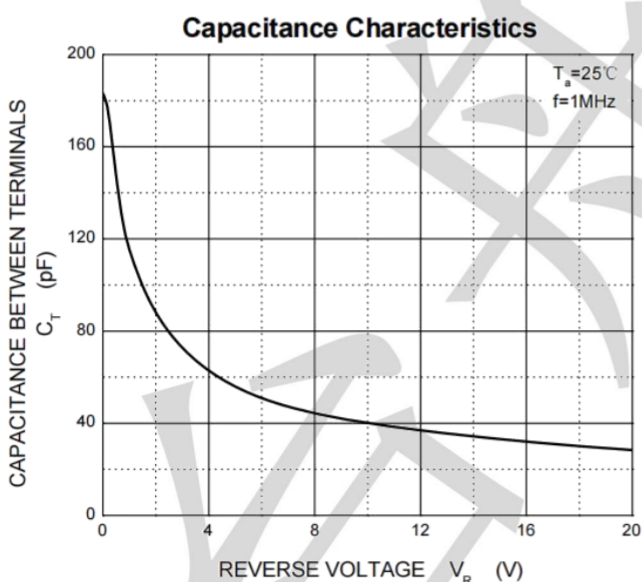
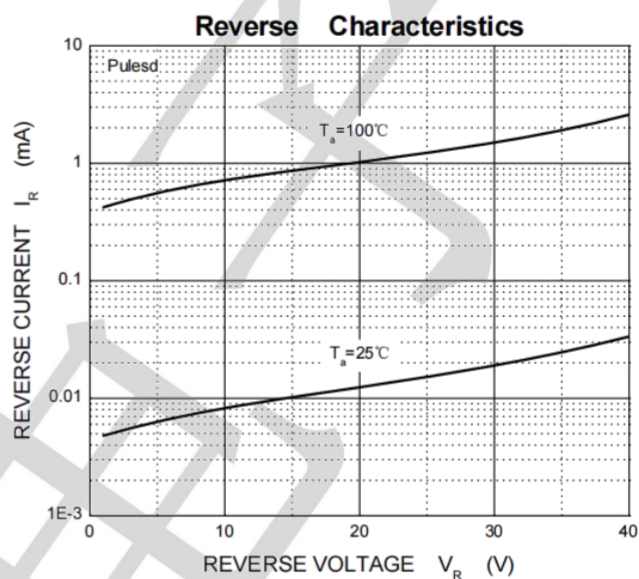
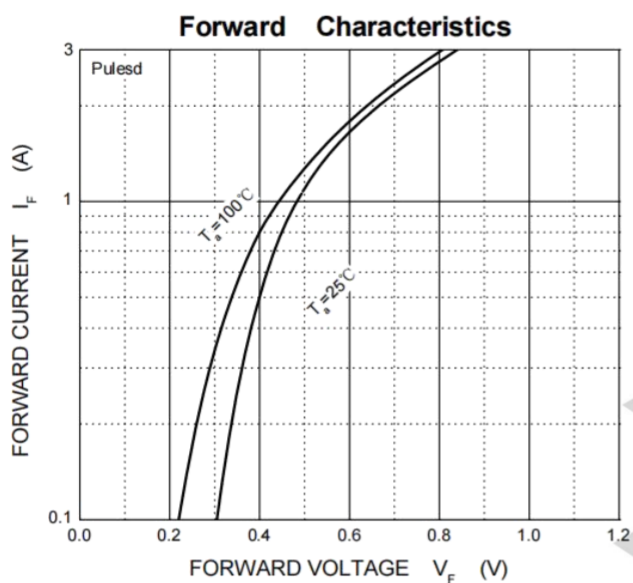
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}	30	V
Working Peak Reverse Voltage	V _{RWM}	30	V
DC Blocking Voltage	V _R	30	V
Maximum RMS voltage	V _{RMS}	21	V
Forward Continuous Current	I _{FM}	1.5	A
Average Rectified Current	I _O	1.0	A
Non-repetitive Peak Forward Surge Current@t=8.3ms	I _{FSM}	9.0	A
Power Dissipation	P _d	500	mW
Thermal Resistance Junction to Ambient	R _{θJA}	200	°C/W
Operating Junction Temperature Range	T _J	-40 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

Electrical Characteristics (TA=25°C unless otherwise specified)

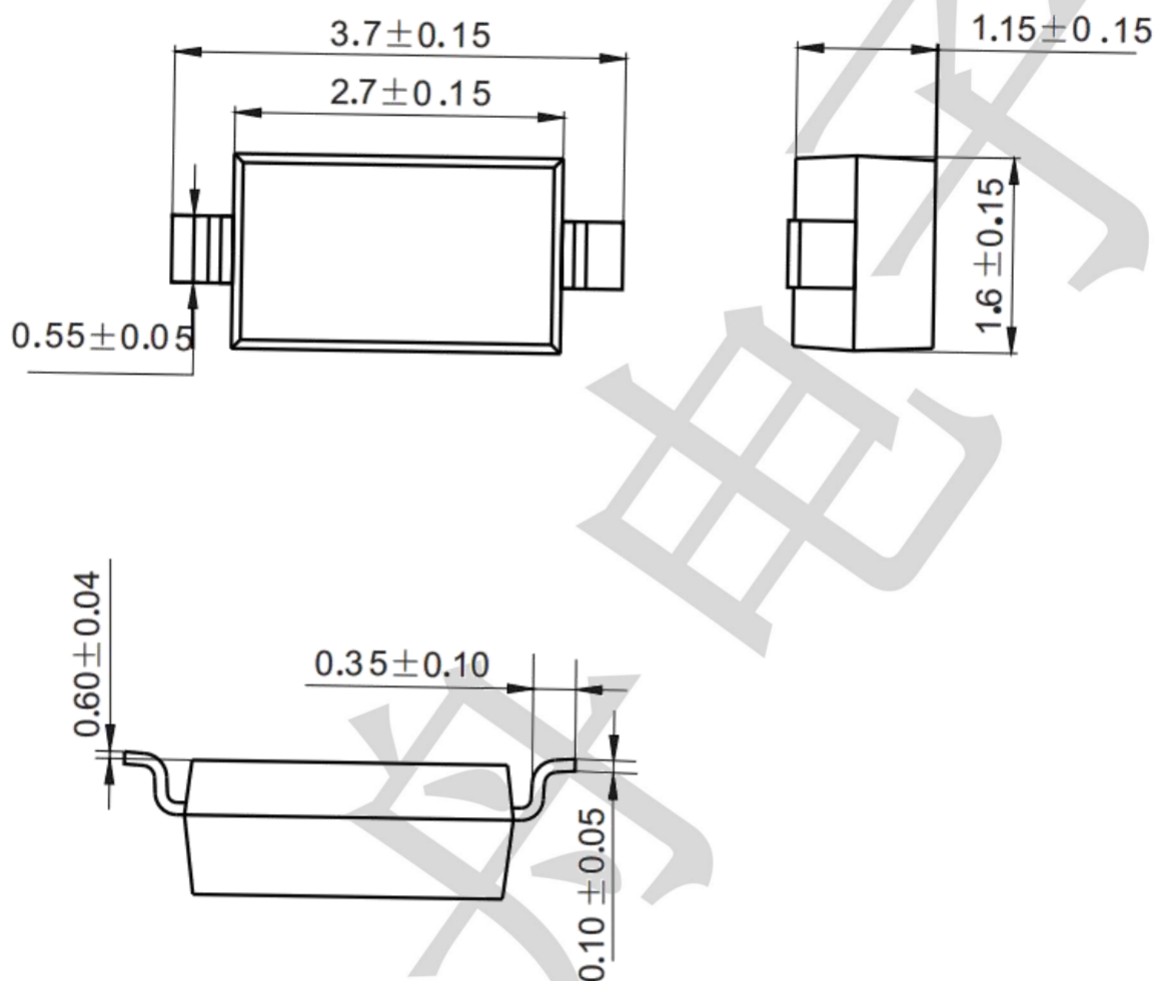
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse breakdown voltage	V _(BR)	30	--	--	V	I _R =1mA
Forward Voltage	V _F	--	--	0.55	V	I _F =1A
		--	--	0.75	V	I _F =3A
Reverse Leakage	I _R	--	--	1	mA	V _R =30V
Capacitance terminals	C _T	--	100	--	pF	V _R = 4 V, f = 1 MHz
Reverse recovery time	t _{rr}		10		ns	I _F =I _R =200mA, I _{rr} =0.1X I _R , R _L =100Ω

Typical Electrical Characteristic Curves



Package Outline Dimensions (unit: mm)

SOD-123



Mounting Pad Layout (unit: mm)

