200mW SOD-323 SURFACEMOUNTSmall OutlineFlatLeadPlasticPackage Fast SwitchingDiode

Green Product

SOD-323 Flat Lead

ELECTRICAL SYMBOL

AbsoluteMaximumRatings T_A= 25°Cunlessotherwisenoted

Symbol	Parameter	Value	Units
P_D	PowerDissipation	200	mW
T_{STG}	Storage Temperature Range	-65 to +150	°C
T_J	Operating Junction Temperature	+150	°C
V_{RSM}	Non-RepetitivePeakReverse Voltage	100	V
V_{RRM}	RepetitivePeakReverse Voltage	75	V
I_{FRM}	RepetitivePeakForward Current	300	mA
I_O	Continuous Forward Current	150	mA

These ratings are limiting values above which theserviceabilityof the diodemaybeimpaired.

SpecificationFeatures:

- FastSwitchingDevice(T_{RR}<4.0nS)
- General PurposeDiodes
- FlatLeadSOD-323 SmallOutlinePlasticPackage
- SurfaceDevice Type Mounting
- RoHS Compliant
- GreenEMC
- MatteTin(Sn)LeadFinish
- BandIndicatesCathode

DEVICEMARKING CODE:

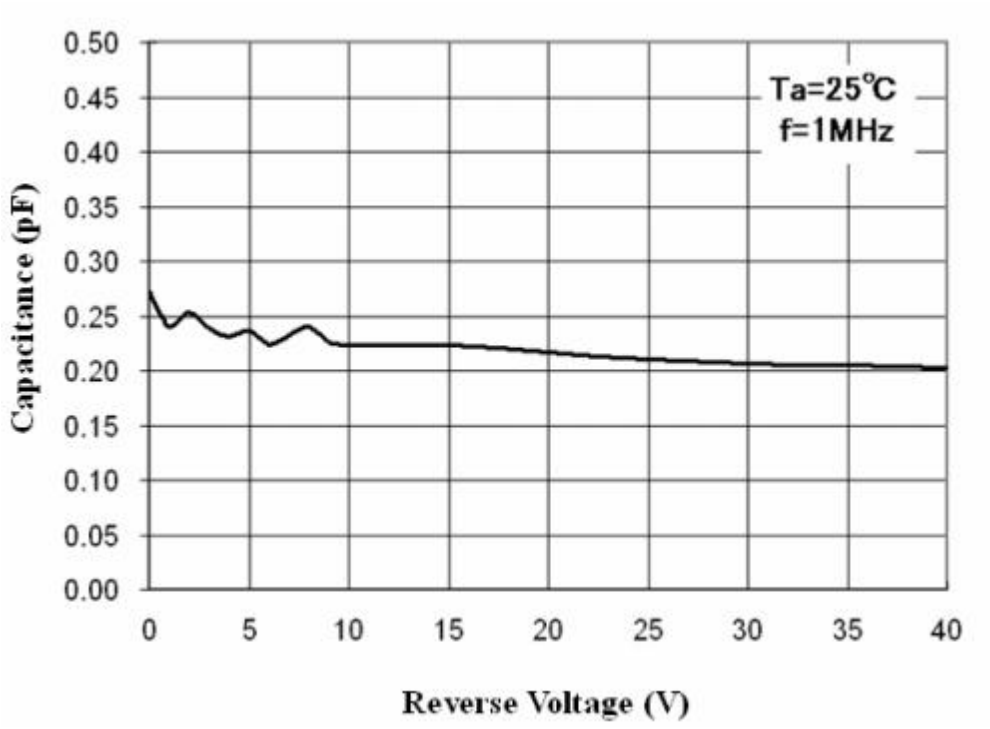
DeviceType	Device Marking
1N4148WS	S1
1N4448WS	S2
1N914BWS	S3

ElectricalCharacteristics T_A= 25°Cunlessotherwisenoted

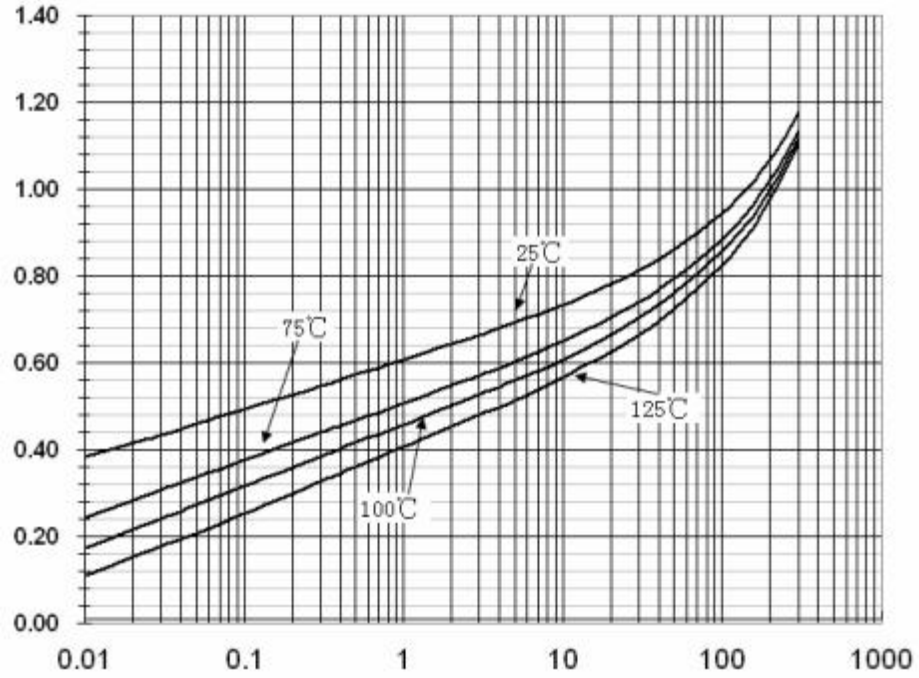
Symbol	Parameter		Test Condition	Limits		Unit
				Min	Max	
B_V	Breakdown Voltage		I_R=100μA I_R=5μA	100 75		Volts
I_R	Reverse LeakageCurrent		V_R=20V V_R=75V		25 5	nA μA
V_F	ForwardVoltage	1N4448WS,1N914BWS	I_F=5mA	0.62	0.72	Volts
		1N4148WS	I_F=10mA		1.0	
		1N4448WS,1N914BWS	I_F=100mA		1.0	
T_{RR}	Reverse Recovery Time		I_F=10mAI $_R$=60mA R_L=100Ω I_{RR}=1mA		4	nS
C	Capacitance		V_R=0V, f=1M_{HZ}		4	pF

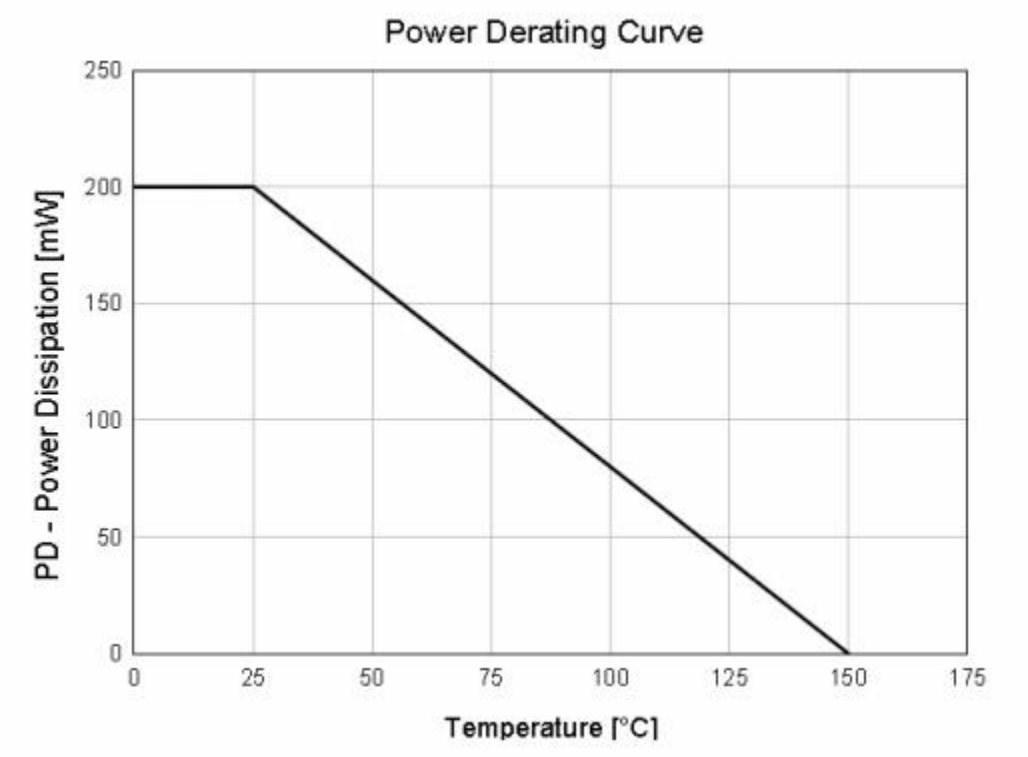
Typical Performance Characteristics

Total Capacitance

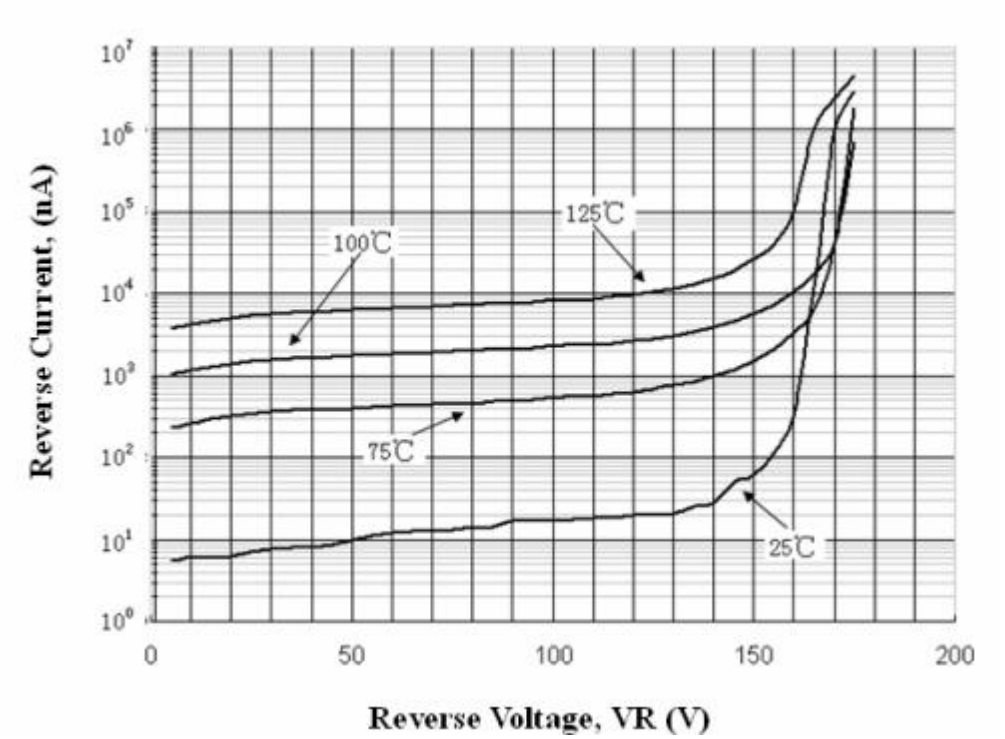


Forward Voltage vs Ambient Temperature

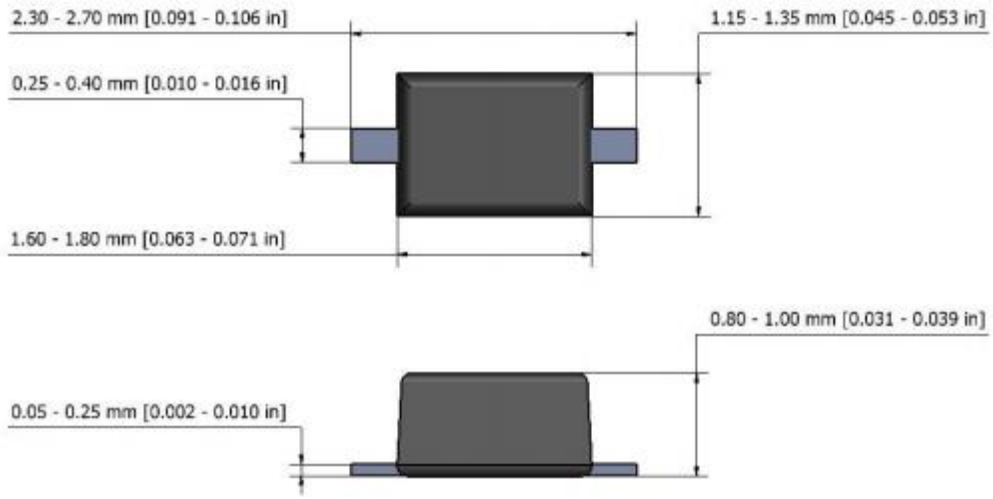




ReverseCurrentvsReverseVoltageReverse



SOD-323PackageOutline



NOTE: TheabovepackageoutlineissimilartoJEITASC-90.