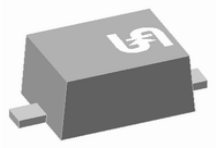
1N4448WS/1N4148WS/1N914BWS

200mW Small Fast Switching Surface Mount Diode

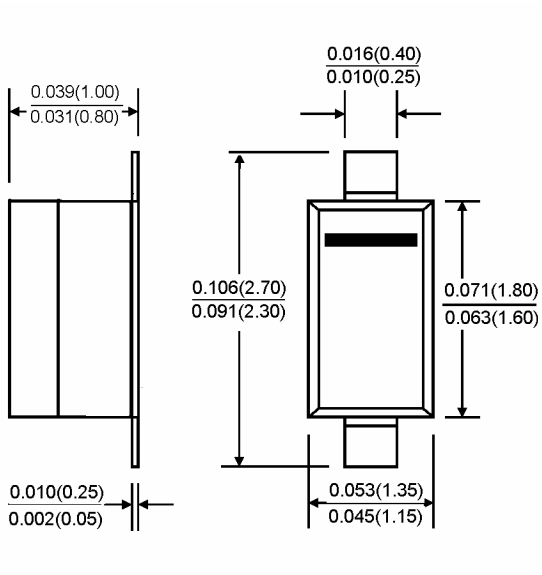
SOD-323F

RoHS COMPLIANCE



Features

- ✧ Fast switching device(T_{RR}<4.0nS)
- ✧ General purpose diodes
- ✧ Flat lead SOD-323F small outline plastic package
- ✧ Surface device type mounting
- ✧ Moisture sensitivity level 1
- ✧ Clip bonding construction, good thermal capability
- ✧ Pb free version and RoHS compliant
- ✧ Matte Tin(Sn) lead finish with Nickel(Ni) underplate
- ✧ Band indicates cathode



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	Value	Units
Power Dissipation	Pd	200	mW
Non-Repetitive Peak Reverse Voltage	V_{RSM}	100	V
Repetitive Peak Reverse Voltage	V_{RRM}	75	V
Repetitive Peak Forward Current	I_{FRM}	300	mA
Continuous Forward Current	Io	150	mA
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to + 150	°C

Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Breakdown Voltage IR=100uA IR=5uA	B_V	100 75		V
Forward Voltage 1N4448WS, 1N914BWS IF=5.0mA 1N4148WS IF= 10mA 1N4448WS, 1N914BWS IF =100mA	VF	0.62 -	0.72 1.0 1.0	V
Reverse Leakage Current VR=20V VR=75V	IR		25 5	nA uA
Junction Capacitance VR=0, f=1.0MHz	Cj	-	4.0	pF
Reverse Recovery Time (I_F=10mA, I_R=60mA, R_L=100Ω, I_{RR}=1mA)	Trr	-	4.0	nS

RATINGS AND CHARACTERISTIC CURVES(1N4448WS/1N4148WS/1N914BWS)

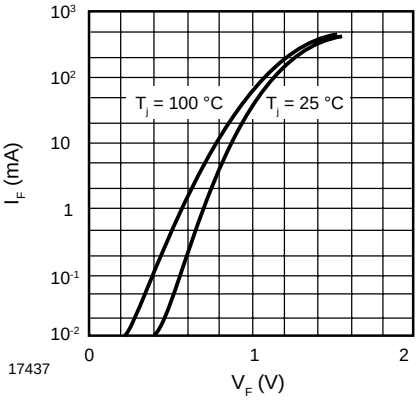


Figure 1. Forward characteristics

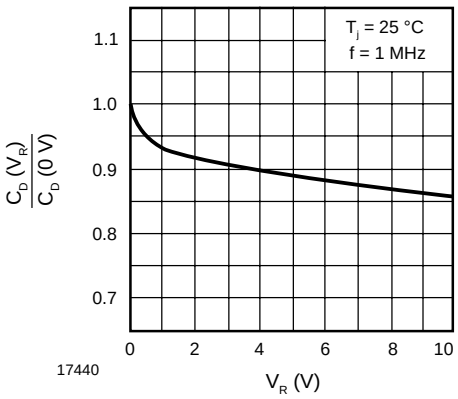


Figure 4. Relative Capacitance vs. Reverse Voltage

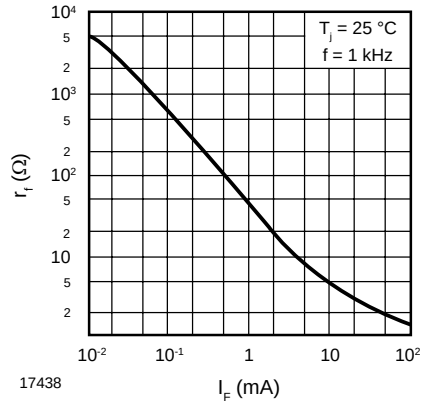


Figure 2. Dynamic Forward Resistance vs. Forward Current

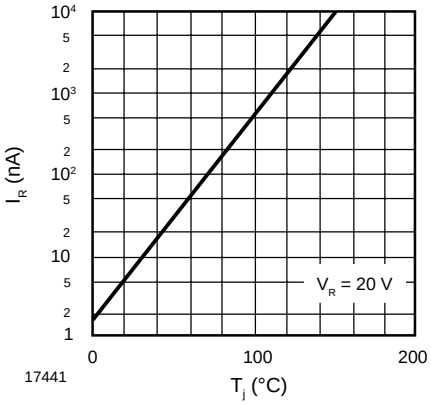


Figure 5. Leakage Current vs. Junction Temperature

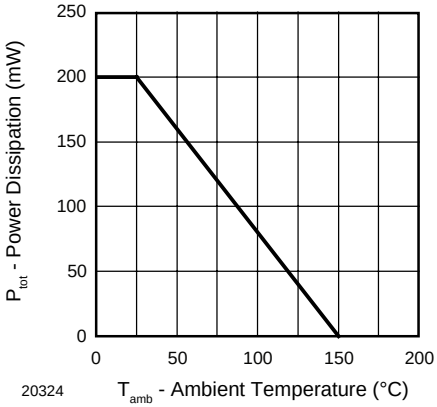


Figure 3. Admissible Power Dissipation vs. Ambient Temperature

RATINGS AND CHARACTERISTIC CURVES(BZT55B SERIES)

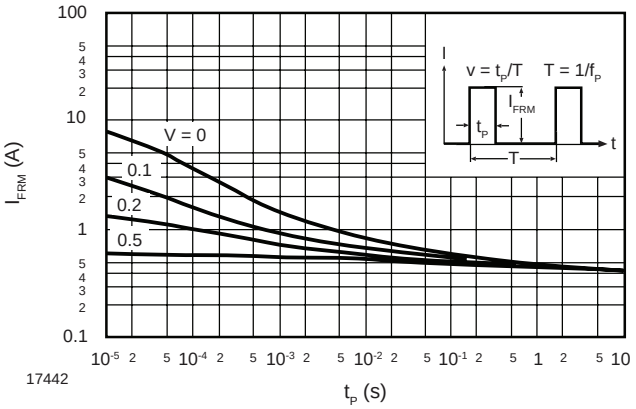


Figure 6. Admissible Repetitive Peak Forward Current vs. Pulse Duration