



1N6263W

Surface Mount Schottky Barrier Diode



Voltage Range
60 Volts
400m Watts Power Dissipation

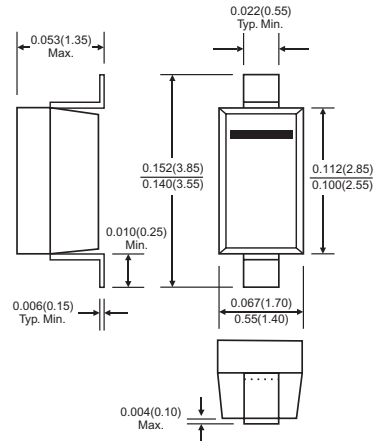
Features

- ✧ Low forward voltage drop
- ✧ Guard Ring Construction for Transient Protection
- ✧ Fast switching time
- ✧ Low Reverse Capacitance
- ✧ Surface mount package ideally suited for automatic insertion

Mechanical Data

- ✧ Case: SOD-123, Plastic
- ✧ Terminals: Solderable per MIL-STD-202, Method 208
- ✧ Polarity: Cathode Band
- ✧ Marking: Date Code and Type Code
- ✧ Type Code: SB
- ✧ Weight: 0.01 grams (approx.)

SOD-123



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	1N6263W	Units
Peak Repetitive Reverse Voltage	VRRM	60	V
Working Peak Reverse Voltage	VRWM		
DC Blocking Voltage	VR		
RMS Reverse Voltage	VR(RMS)	42	V
Forward Continuous Current	IF	15	mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s @ t = 10ms	IFSM	50 2.0	mA A
Power Dissipation (Note 1)	Pd	400	mW
Thermal Resistance Junction to Ambient Air (Note 1)	RθJA	375	K/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to + 175	°C

Electrical Characteristics

Type Number	Symbol	Min	Typ	Max	Units
Reverse Breakdown Voltage (Note 3) IR=10uA	V(BR)	60	—	—	V
Reverse Leakage Current VR=50V	IR	—	—	200	nA
Forward Voltage Drop IF=1.0mA IF=15mA	VF	—	—	0.41 1.0	V
Junction Capacitance VR=0, f=1.0MHz	Cj	—	2.0	—	pF
Reverse Recovery Time (Note 2)	trr	—	1.0	—	nS

Notes: 1. Valid Provided that Terminals are Kept at Ambient Temperature.

2. Reverse Recovery Test Conditions: IF=IR=5.0mA, Irr=0.1 x IR, RL=100Ω.

3. Test Period < 3000uS.

RATINGS AND CHARACTERISTIC CURVES (1N6263W)

FIG.1- TYPICAL FORWARD CHARACTERISTIC VARIATIONS FOR PRIMARY CONDUCTION

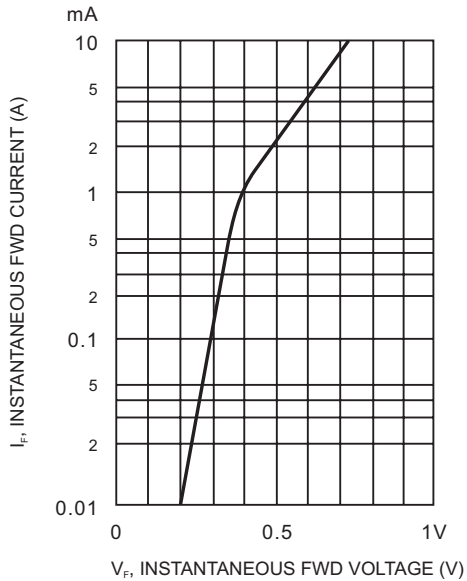


FIG.2- TYP. JUNCTION CAPACITANCE VS REVERSE VOLTAGE

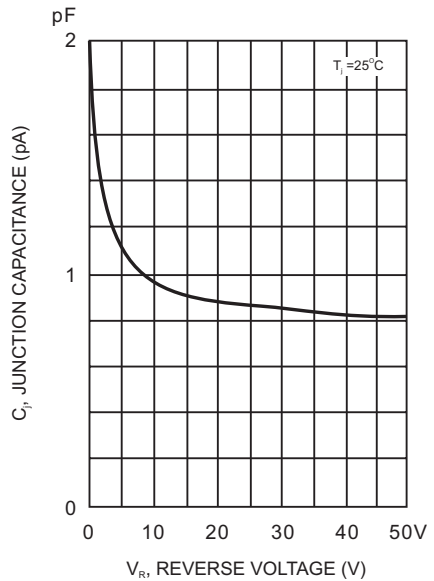


FIG.3- TYPICAL REVERSE CHARACTERISTICS

