1. Features

- Low forward voltage
- Low reverse capacitance

2. Mechanical Data

- Case:Molded Plastic,SOD-123.
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking:SM
- Mounting Position : Any.

SOD-123

3. Maximum Ratings

Electrical Characteristics Rating at 25 $^\circ\!\mathrm{C}$ ambient temperature unless otherwise specified.

Symbol	Value	Unit					
V _R	60	V					
Ι _ο	15	mA					
I _{FSM}	2	А					
R _{eJA}	300	°C/W					
P _D	333	mW					
TJ	-55 to+125	°C					
T _{stg}	-55 to+150	°C					
	Symbol V _R I _O I _{FSM} R _{θJA} P _D T _J T	Symbol Value V _R 60 I _O 15 I _{FSM} 2 R _{θJA} 300 P _D 333 T _J -55 to+125 T 55 to+150					

4. Electrical Characteristics (T_a=25 $^\circ\!\!\!\mathrm{C}$ unless otherwise noted)

· u						
Parameters	Symbol	Cindition	Min	TYP	Max	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R = 10μΑ	60	-	-	V
Forward Voltage	V _F	I _F =1mA	-	-	0.41	V
		I _F =15mA	-	-	1	
Reverse Current	I _R	V _R = 50V	-	-	200	nA
Total Capacitance	C _{tot}	V _R = 0 V, f = 1 MHz	-	-	2.2	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 5mA$, $I_{rr} = 0.1^* I_R$, $R_L = 100$ Ω	-	-	1	ns

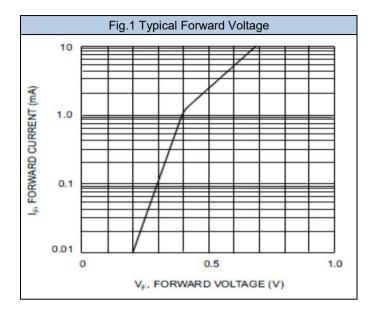
1 of 4

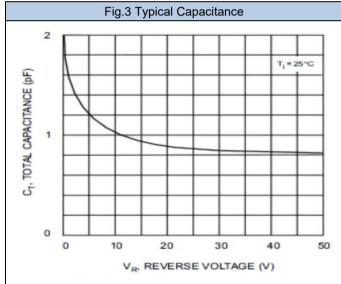
SCHOTTKY BARRIER DIODE

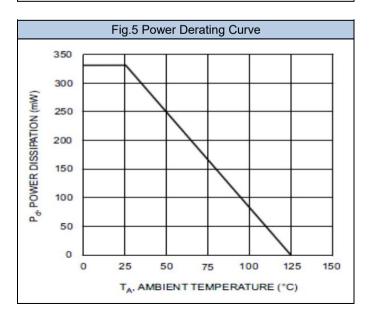


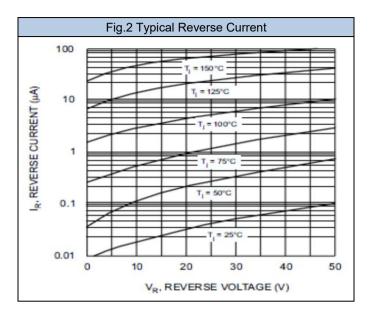
1N6263W SCHOTTKY BARRIER DIODE

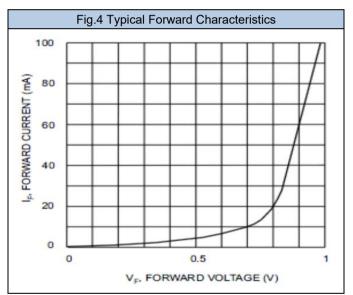
5. Rating And Characteristic Curves











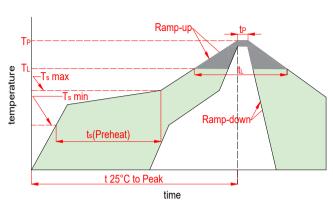
2 of 4



1N6263W

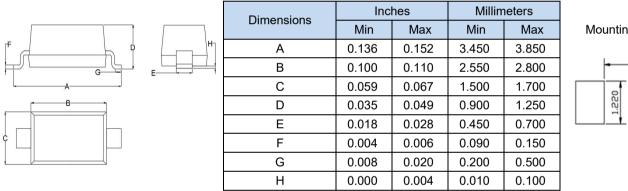
SCHOTTKY BARRIER DIODE

6. Soldering Parameters

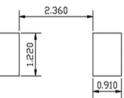


	Reflow Condition	Lead-free
Pre Heat	Temp. min(T _s (min))	150 ℃
	Temp. max(T _s (min))	200 ℃
	Time(min to max)(t _s)	60~120s
Aver. ramp	up rate(Liquidus Temp.)(T _L)to peak	3℃/s max
T _s (max) to ⁻	T _L -Ramp-up Rate	3℃/s max
Reflow	Temp.(T _L)(Liquidus)	217 ℃
	Temp.(t _L)(Liquidus)	60~150s
Peak Temp	.(T _P)	260⁺⁰′-5 ℃
Time within	actual peak Temp.(t _p)	30s max
Ramp-dowr	n Rate	6℃/s max
Time 25℃ t	o peak Tempe.(T _p)	8 minutes max
Do not exce	ed	260 ℃

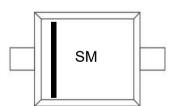
7. Dimensions



Mounting PAD Layout



8. Part Marking System



9. Package Information

Package	Туре	Tape Width (mm)	Quantity(pcs)
SOD-123	1N6263W	8	3000

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