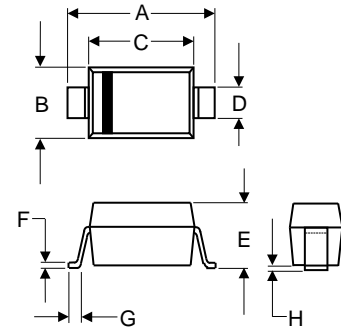


### Features

- \* SOD-123 package
- \* Fast switching
- \* These diodes are also available in other case style including the DO-35 case with the type designation 1N4148, the MiniMELF case with the type designation LL4148 and the MicroMELF case with the type designation MCL4148.
- \* Marking Code: "W1"



RoHS  
COMPLIANT



SOD-123				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.138	0.150	3.50	3.80
B	0.059	0.067	1.50	1.70
C	0.100	0.106	2.54	2.70
D	0.020	0.028	0.50	0.70
E	0.036	0.048	0.91	1.21
F	0.003	0.008	0.08	0.20
G	0.008	0.016	0.20	0.40
H	---	0.004	---	0.10

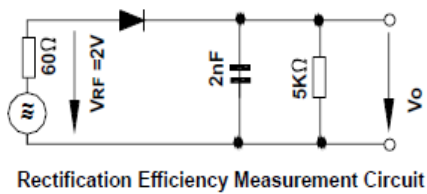
### Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	100	V
Reverse Voltage	$V_R$	75	V
Average Rectified Forward Current	$I_{F(AV)}$	150	mA
Non-repetitive Peak Forward Surge Current at t = 1 $\mu$ s	$I_{FSM}$	2	A
Power Dissipation	$P_{tot}$	400	mW
Thermal Resistance from Junction to Ambient Air	$R_{\theta JA}$	312	°C/W
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	- 65 to + 150	°C

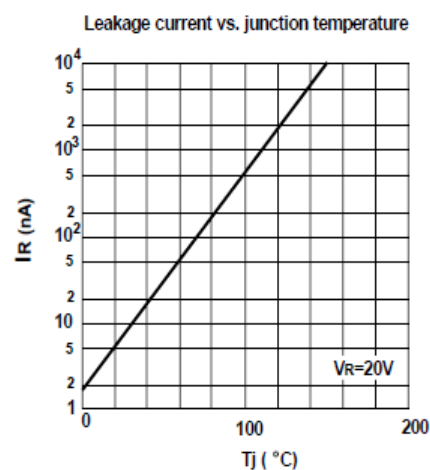
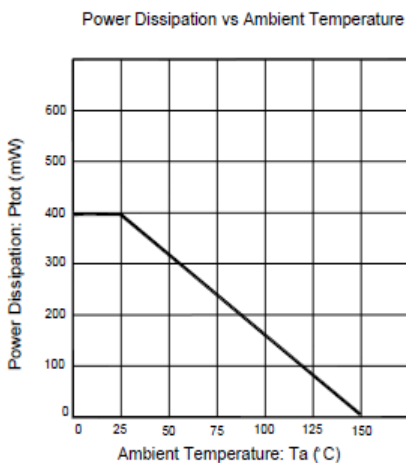
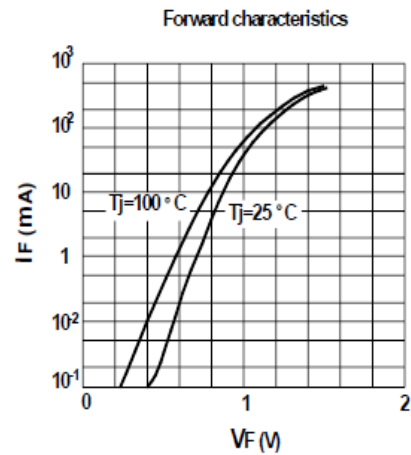
### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I <sub>R</sub> = 1 μA	V <sub>(BR)R</sub>	75	-	V
Forward Voltage at I <sub>F</sub> = 1 mA at I <sub>F</sub> = 10 mA at I <sub>F</sub> = 50 mA at I <sub>F</sub> = 150 mA	V <sub>F</sub>	- - - -	0.715 0.855 1 1.25	V
Peak Reverse Current at V <sub>R</sub> = 75 V at V <sub>R</sub> = 20 V at V <sub>R</sub> = 75 V, T <sub>J</sub> = 150°C at V <sub>R</sub> = 25 V, T <sub>J</sub> = 150°C	I <sub>R</sub>	- - - -	1 25 50 30	μA nA μA μA
Total Capacitance at V <sub>R</sub> = 0 V, f = 1 MHz	C <sub>T</sub>	-	2	pF
Reverse Recovery Time at I <sub>rr</sub> = 0.1 X I <sub>R</sub> , I <sub>F</sub> = I <sub>R</sub> = 10 mA, R <sub>L</sub> = 100 Ω	t <sub>rr</sub>	-	4	ns

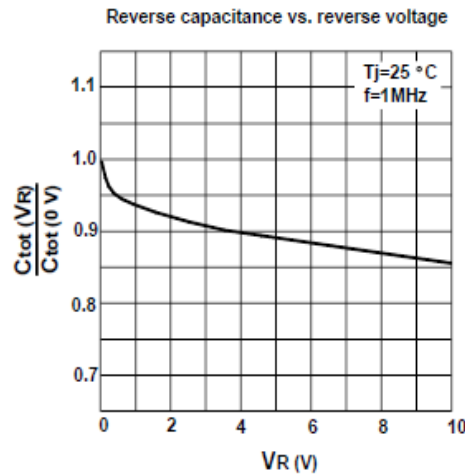
### Ratings and Characteristic Curves



Rectification Efficiency Measurement Circuit



### Ratings and Characteristic Curves



### Ordering Information

Part No.	Package	Packing Code	Packing
1N4148W	SOD-123	R30	3000pcs/Reel

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