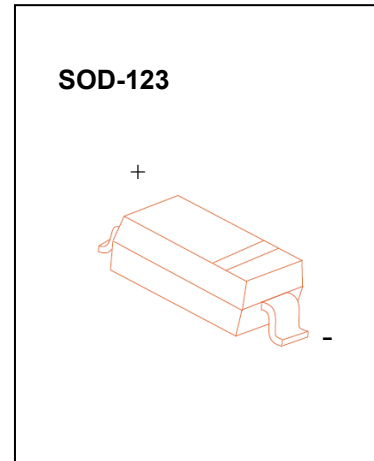# 1N4148W

wpmtek Incorporated

SOD-123

FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

MARKING:T4

Maximum Ratings and Electrical Characteristics, Single Diode @T$_a$=25℃

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V$_{RM}$	100	V
Peak Repetitive Peak reverse voltage Working Peak Reverse Voltage DC Blocking Voltage	V$_{RRM}$ V$_{RWM}$ V$_R$	100	V
RMS Reverse Voltage	V$_{R(RMS)}$	71	V
Forward Continuous Current	I$_{FM}$	300	mA
Average Rectified Output Current	I$_O$	150	mA
Peak forward surge current @=1.0μs @=1.0s	I$_{FSM}$	2.0 1.0	A
Power Dissipation	Pd	500	mW
Thermal Resistance from Junction to Ambient	R$_{θJA}$	250	℃/W
Junction temperature	T$_j$	150	℃
Storage temperature	T$_{STG}$	-65~+150	℃

Electrical Ratings @T$_a$=25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V$_{F1}$			0.715	V	I$_F$=1mA
	V$_{F2}$			0.855	V	I$_F$=10mA
	V$_{F3}$			1.0	V	I$_F$=50mA
	V$_{F4}$			1.25	V	I$_F$=150mA
Reverse current	I$_{R1}$			1	μA	V$_R$=75V
	I$_{R2}$			25	nA	V$_R$=20V
Capacitance between terminals	C$_T$			2	pF	V$_R$=0V,f=1MHz
Reverse Recovery Time	t$_{rr}$			4	ns	I$_F$=I$_R$=10mA Irr=0.1XI$_R$,R$_L$=100Ω

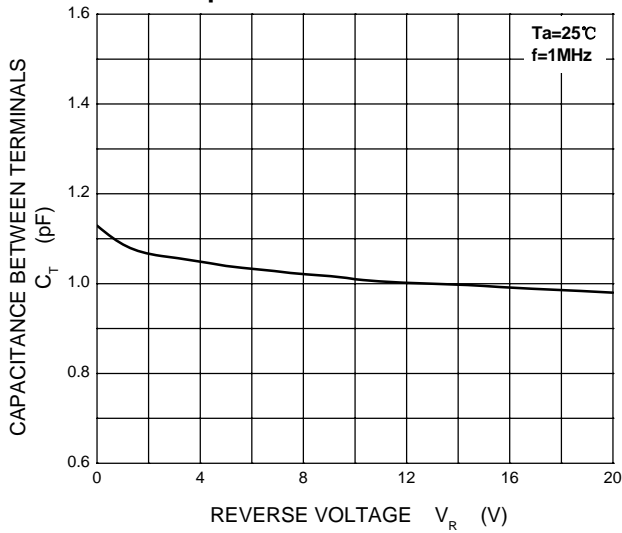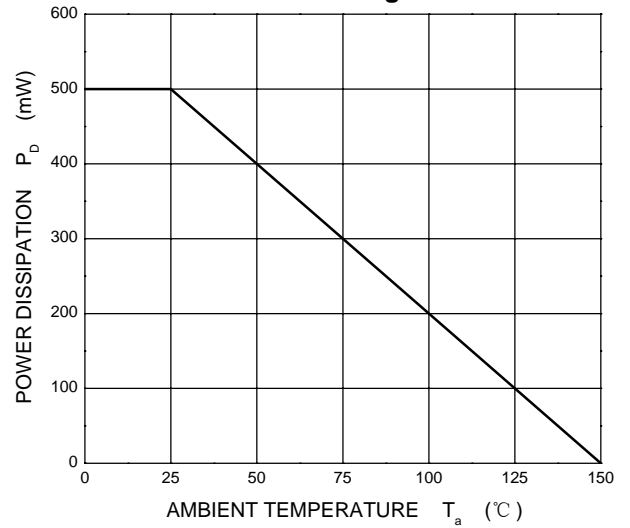## Forward Characteristics
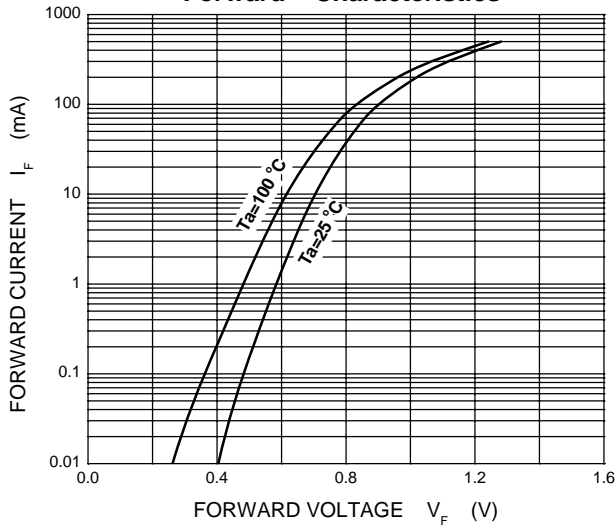
Reverse Characteristics
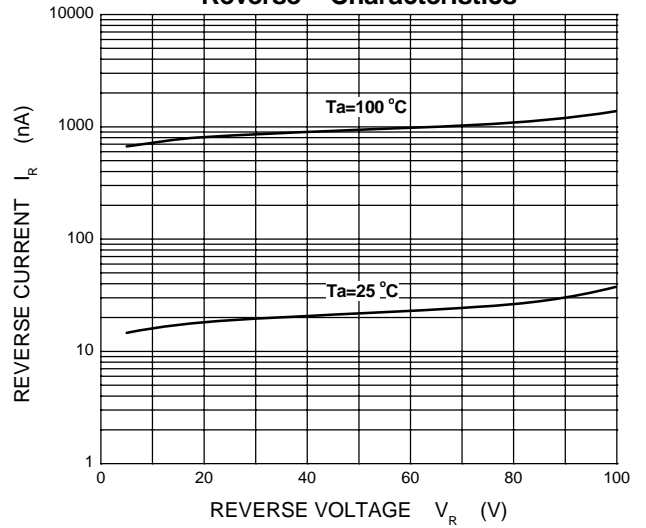
Capacitance Characteristics

Power Derating Curve

X-ON Electronics

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