

# 承 认 书

## SPECIFICATION FOR APPROVAL

客户: 佛山电器照明股份有限公司

CUSTOMER:

日期:

DATE: 2016 年 12 月 7 日

厂牌:

型号: 1N4148W

TYPE NUMBER:

重庆平伟实业股份有限公司

CHONGQING PINGWEI ENTERPRISE CO., LTD.

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PINGWEI ENTERPRISE

# 1N4148W

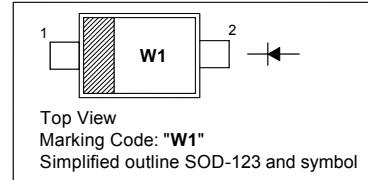
## Silicon Epitaxial Planar Switching Diode

### 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.

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



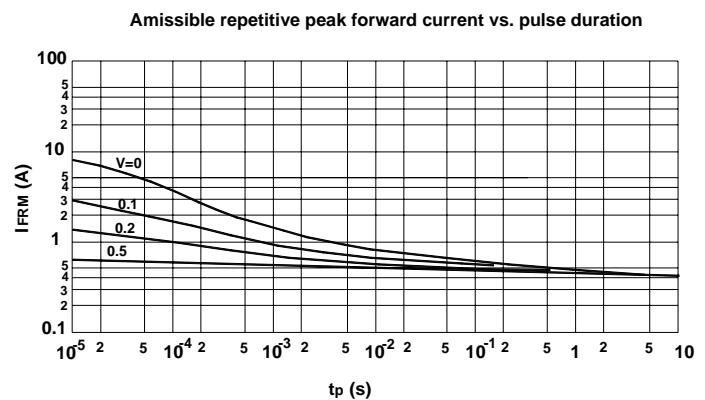
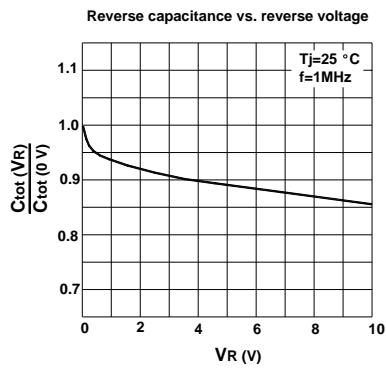
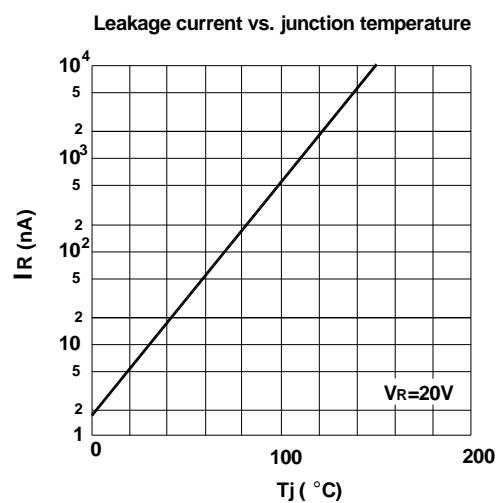
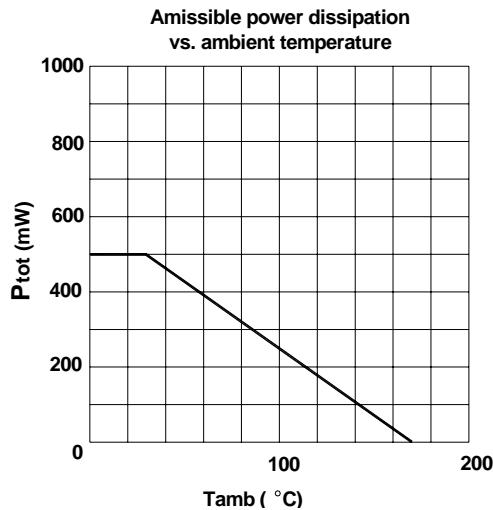
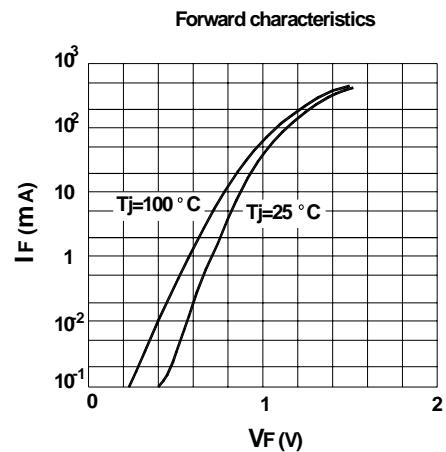
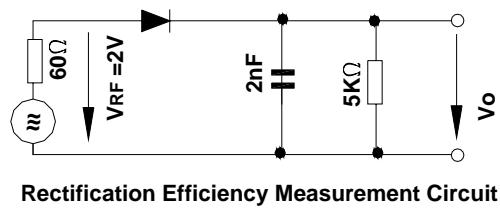
### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

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 $t = 1 \mu\text{s}$	$I_{FSM}$	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 ( $T_a = 25^\circ\text{C}$ )

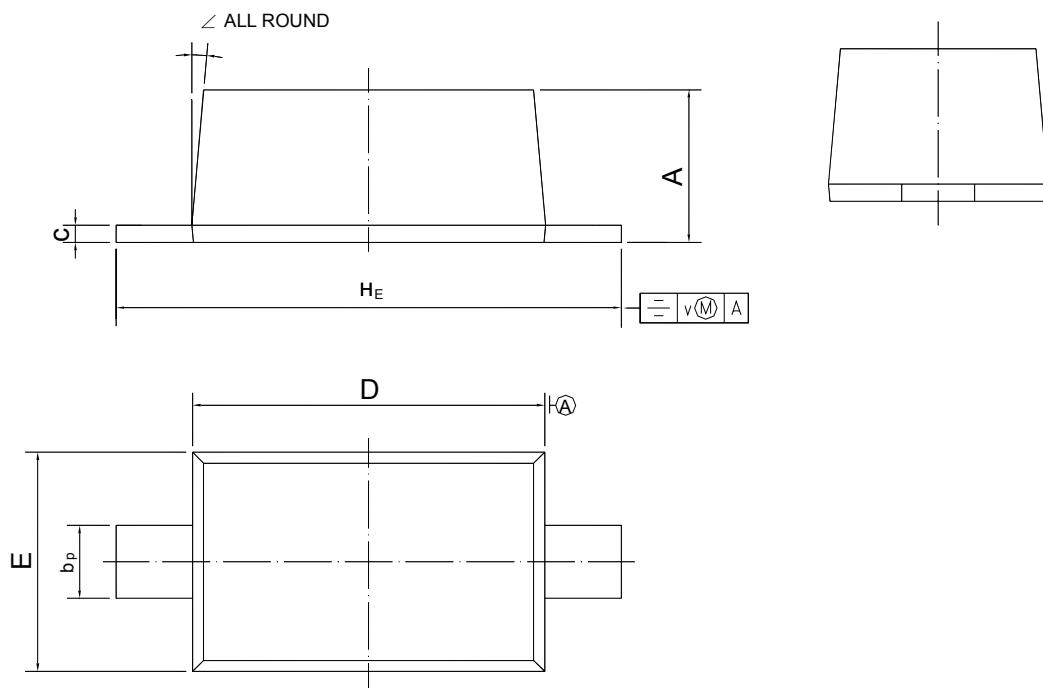
Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 10 \text{ mA}$	$V_F$	1	V
Reverse Current at $V_R = 20 \text{ V}$ at $V_R = 75 \text{ V}$ at $V_R = 20 \text{ V}, T_j = 150 \text{ }^\circ\text{C}$	$I_R$	25 5 50	nA μA μA
Total Capacitance at $V_R = 0 \text{ V}, f = 1 \text{ MHz}$	$C_{tot}$	4	pF
Reverse Recovery Time at $I_F = 10 \text{ mA}$ to $I_R = 1 \text{ mA}, V_R = 6 \text{ V}, R_L = 100 \Omega$	$t_{rr}$	4	ns

# 1N4148W



**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

**SOD-123**

UNIT	A	$b_p$	c	D	E	$H_E$	v	$\angle$
mm	1.15 1.05	0.6 0.5	0.135 0.100	2.7 2.6	1.65 1.55	3.9 3.7	0.2	5°