



WEET Technology Company Limited

High Speed Switching Diode

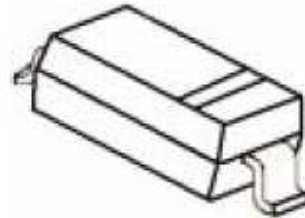
1N4148W

VOLTAGE RANGE 100 Volts
CURRENT 150m Ampere

FEATURES

- Fast switching for high efficiency
- Fast Switching Device (TRR <4.0 nS)
- Power Dissipation of 500mW
- High Stability and High Reliability
- Low leakage
- High temperature soldering guaranteed:
250°C/10 second at terminals

SOD-123



MARKING: T4

MECHANICAL DATA

- Flat Lead SOD-123 Small Outline Plastic Package
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.0006 ounce, 0.017 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Reverse Voltage	VR	75	V
Peak Reverse Voltage	VRM	100	V
Power Dissipation	Pd	500	mW
Operating junction temperature	Tj	150	°C
Storage temperature range	Ts	-65-150	°C
Working Inverse Voltage	WIV	75	V
Average Rectified Current	IO	150	mA
Non-repetitive Peak Forward Current	IFM	300	mA
Peak Forward Surge Current @tp=1us; TA=25°C	IFSM	2	A

Valid provided that electrodes are kept at ambient temperature.



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Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
BV	Breakdown Voltage	IR=100uA IR=5uA	100 75		V
IR	Reverse Leakage Current	VR=20V VR=75	---	25 5	nA uA
VF	Forward Voltage	IF=10mA IF=100mA	---	1 1	V
TRR	Reverse Recovery Time	IF= 10mA, IR=60mA RL=100Ω IRR=1mA	---	4	nS
C	Capacitance	VR=0V, f=1MHZ	---	4	pF



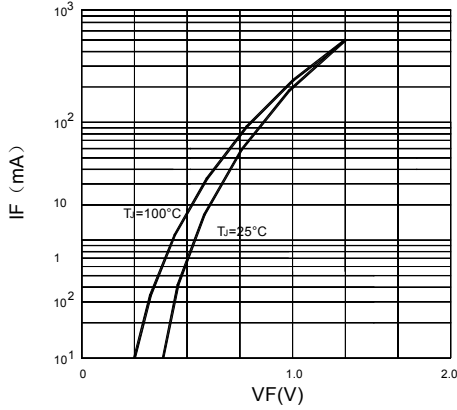
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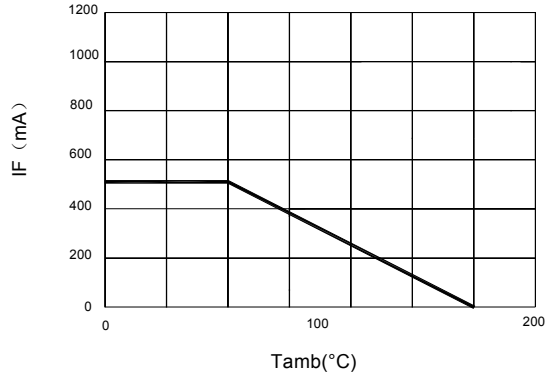
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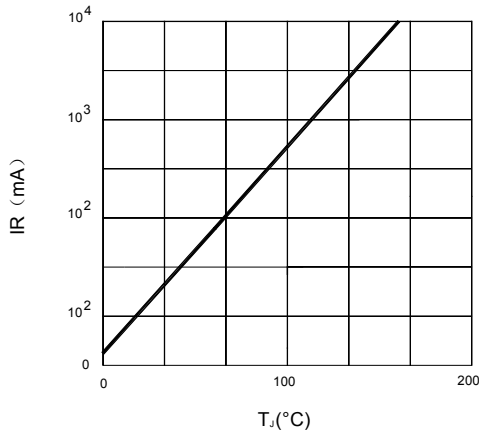
Forward characteristics



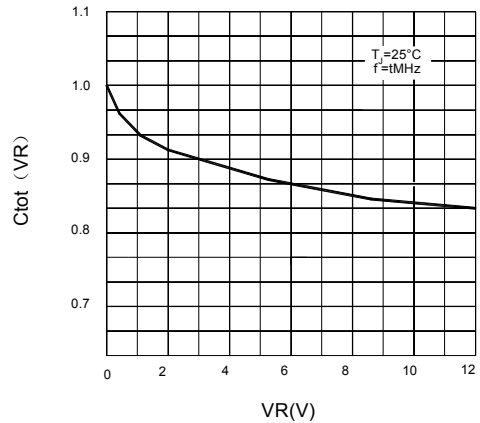
Admissible power dissipation versus ambient temperature



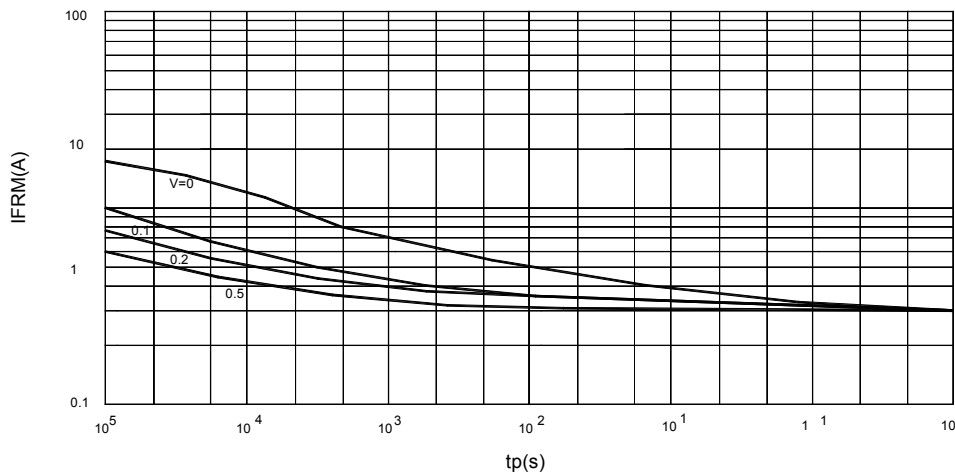
Leakage current versus junction temperature



Reverse capacitance VS. reverse voltage



Admissible repetitive peak forward current VS. pulse duration





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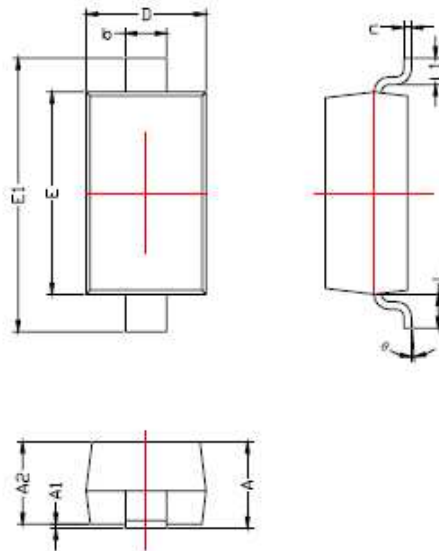
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SOD-123 PACKAGE OUTLINE

Plastic surface mounted package

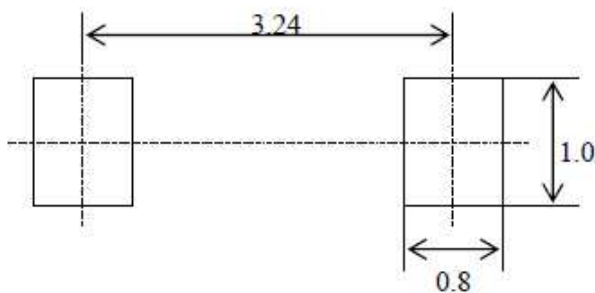


SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.080	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500REF	
L1	0.250	0.450
θ	0°	8°

焊盘设计参考

Precautions: PCB Design

Recommended land dimensions for SOD-123 diode. Electrode patterns for PCBs



中心距: 3.24
 脚 宽: 0.55
 焊盘宽: 1.00
 脚 长: 0.50
 焊盘长: 0.80

技术要求:

- 1, 塑封体尺寸: 2.70 X 1.60
- 2, 未注公差为: ±0.05
- 3, 所有单位: mm

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.