

LED lights dedicated high-speed switching diode

FEATURES

- * For surface mounted applications
- * Glass Passivated Chip Junction
- * Fast reverse recovery time
- * Ideal for automated placement
- * Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- * Case: Molded plastic
- * Mounting position: Any
- * Weight: 0.015gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	1N4148WL	UNITS
Non-Repetitive Peak Reverse Voltage	VRM	100	Volts
Maximum Repetitive Peak Reverse Voltage	VRRM	75	Volts
Maximum Working Peak reverse Voltage	VRWM		
Maximum DC Blocking Voltage	VR		
Maximum Average Forward Rectified Current	IO	150	mAmps
Non-Repetitive Peak Forward Surge Current @t=1.0mS	IFSM	4	Amps
Typical Current Squared Time	I ² t	0.066	A ² S
Typical Reverse Recovery Time	Trr	8	nS
Typical Junction Capacitance	Cj	5	pF
Total Power Dissipation	Ptot	400	mW
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150	°C

ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	1N4148WL	UNITS
Maximum Instantaneous Forward Voltage	VF	@IF=1.0mA	0.715
		@IF=10mA	0.855
		@IF=50mA	1.0
		@IF=150mA	1.25
Maximum Instantaneous Reverse Current	IR	@VR=20V	25
		@VR=75V	1.0

RATING AND CHARACTERISTICS CURVES (IN4148WL)

Fig.1 Forward Current Derating Curve

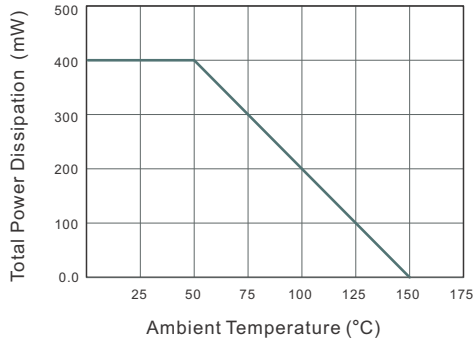


Fig.2 Typical Reverse Characteristics

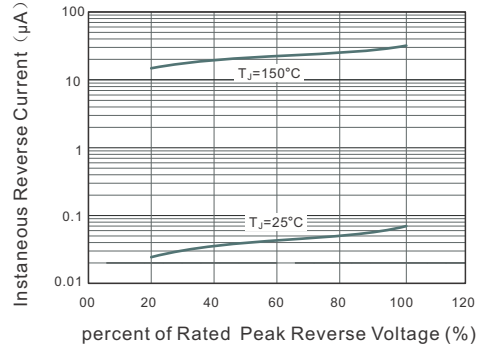


Fig.3 Typical Instantaneous Forward Characteristics

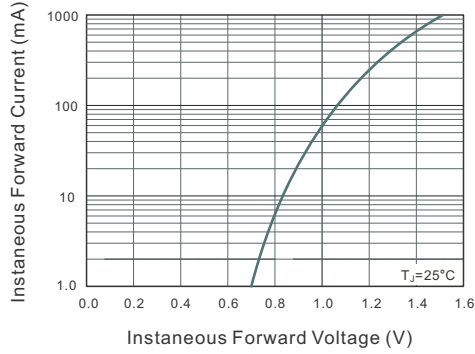
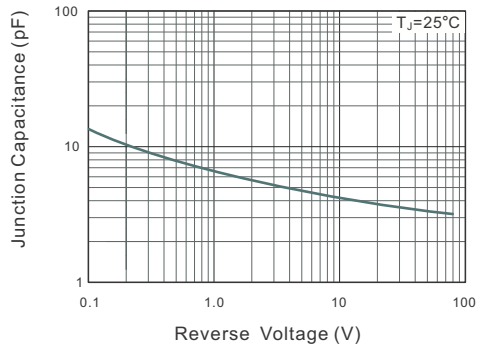
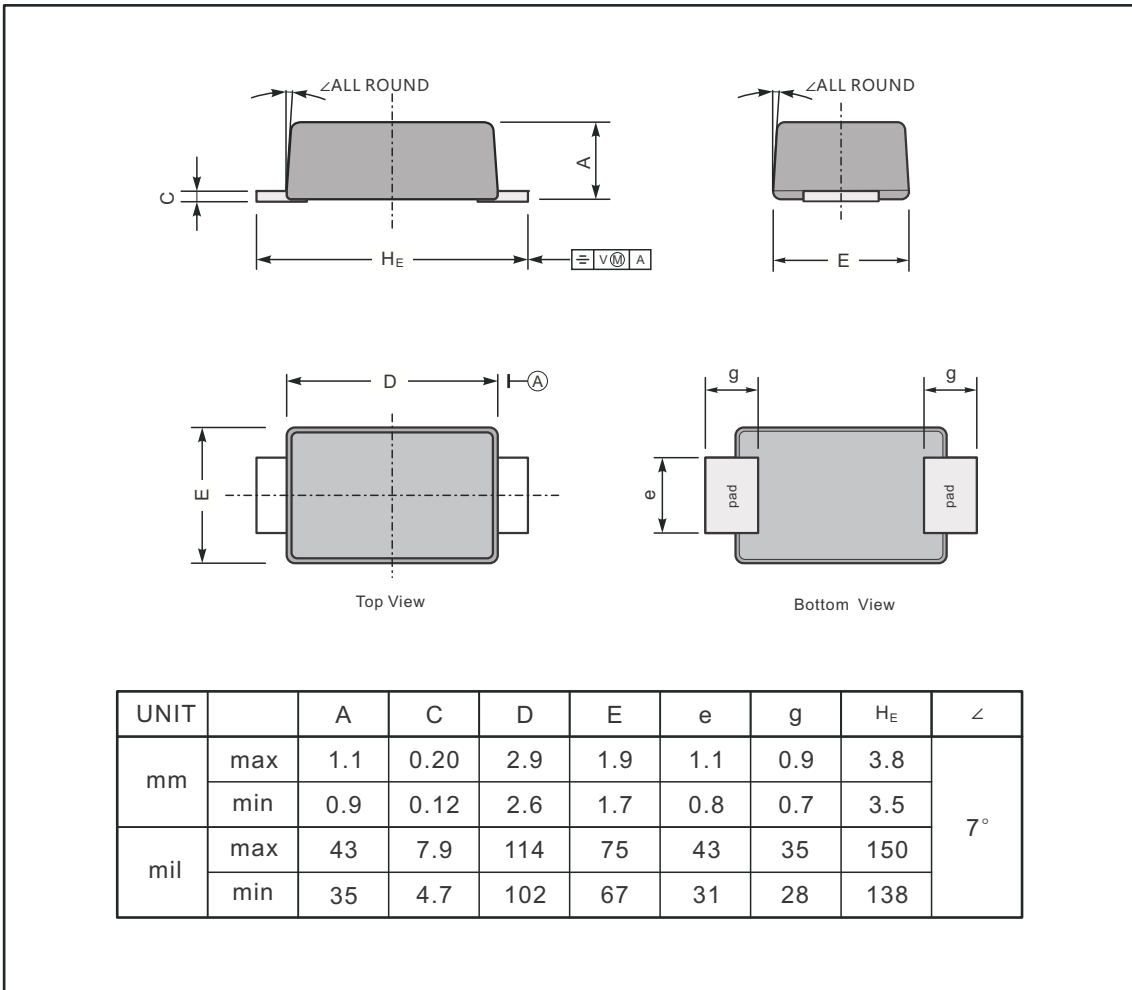


Fig.4 Typical Junction Capacitance

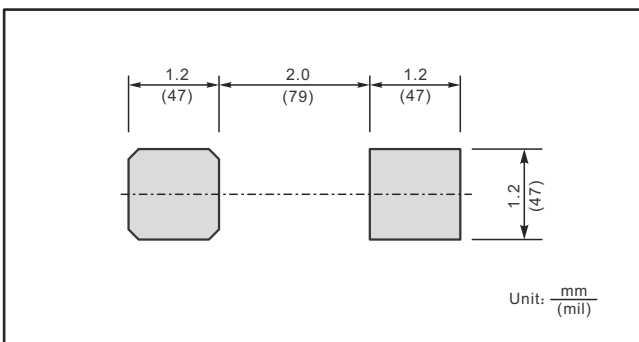


PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



The recommended mounting pad size



Marking

Type number	Marking code
1N4148WL	T4

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOD-123F(L)	-W/T	3,000	15,000	---	---	178	390*205*310	120,000	6.964

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