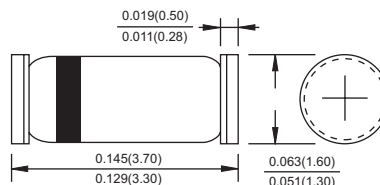




## Features

- ✧ Surge overload ratings to 2 amperes peak
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- ✧ Terminal : Pure tin plated lead free,
- ✧ Mounting position: Any
- ✧ Weight: 0.12 gram



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Rating 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

Type Number	Symbol	Value	Units
Repetitive Peak Reverse Voltage	VRRM	100	V
Reverse Voltage	VR	75	V
Forward Repetitive Peak Current (Note 1)	IFRM	500	mA
Average Forward Current	IF (AV)	150	mA
Peak Forward Surge Current tp=1uS	IFSM	2.0	A
Power Dissipation (Note 1)	Pd	500	mW
Thermal Resistance Junction to Ambient Air ( Note 1 )	RθJA	350	K/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to + 175	°C

### Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Forward Voltage IF=5.0mA IF= 50mA	V <sub>F</sub>	0.62 -	0.72 1.0	V
Peak Reverse Current VR=20V VR=20V, Tj=150°C VR=75V	I <sub>R</sub>	-	25 50 5	nA uA uA
Junction Capacitance VR=0, f=1.0MHz	C <sub>j</sub>	-	4.0	pF
Reverse Recovery Time (Note 2)	trr	-	4.0	nS

- Notes:
1. Valid Provided that Terminals are Kept at Ambient Temperature.
  2. Reverse Recovery Test Conditions: IF=10mA, VR=6V, Irr=0.1 x IR, RL=100Ω.

## RATINGS AND CHARACTERISTIC CURVES (LL4148)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

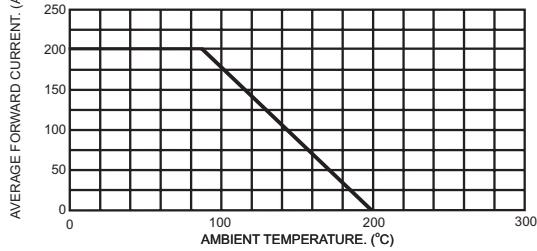


FIG.2- TYPICAL REVERSE CHARACTERISTICS

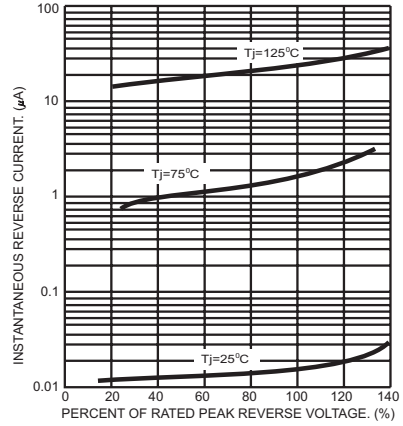


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

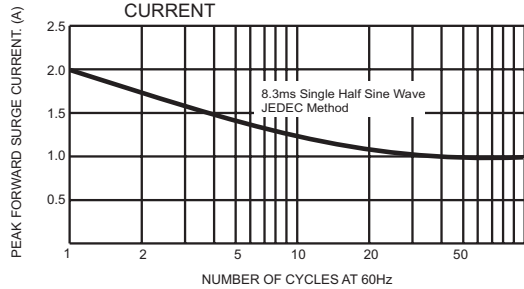


FIG.5- TYPICAL FORWARD CHARACTERISTICS

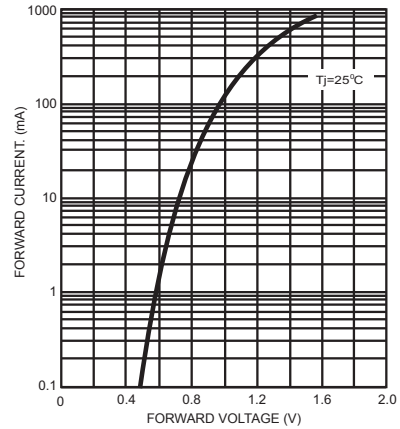


FIG.4- TYPICAL JUNCTION CAPACITANCE

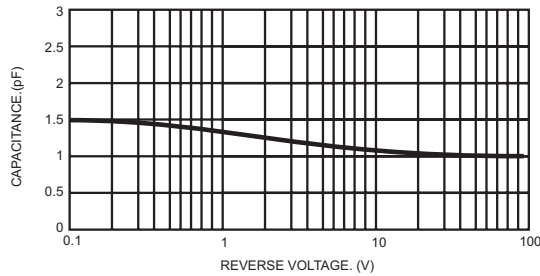


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

