

## Maximum Ratings (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Single phase, half wave, 60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	30	V
Average Rectified Output Current	I <sub>O</sub>	2.0	A
Repetitive Peak Forward Current (Pulse Wave = 1 Sec, Duty Cycle = 66%)	I <sub>FRM</sub>	4.2	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I <sub>FSM</sub>	20	A

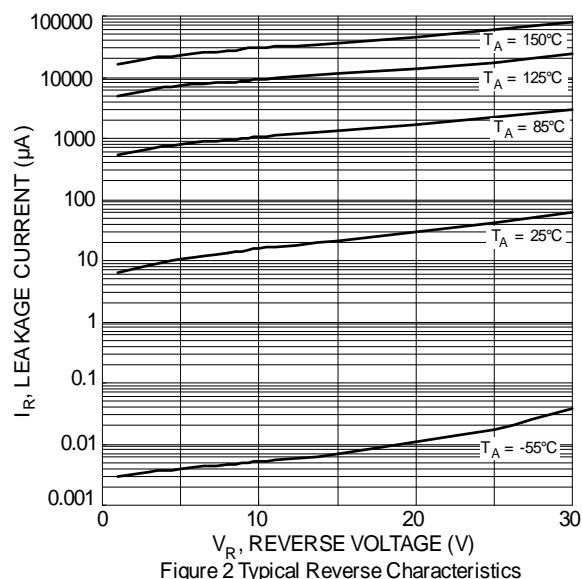
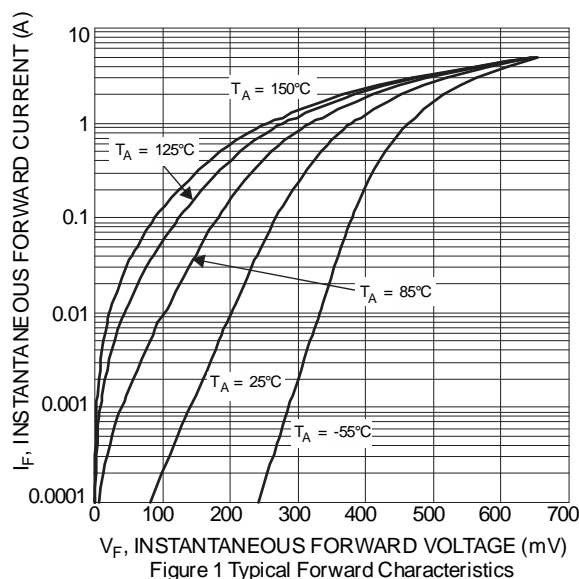
## Thermal Characteristics

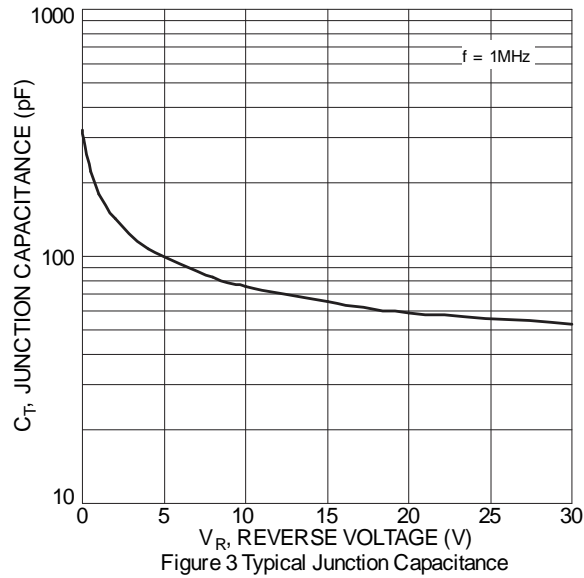
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 5)	R <sub>θJA</sub>	155	°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

## Electrical Characteristics (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage Drop	V <sub>F</sub>	—	0.38	0.42	V	I <sub>F</sub> = 1.0A
		—	0.45	0.48		I <sub>F</sub> = 2.0A
Reverse Current (Note 6)	I <sub>R</sub>	—	—	150	μA	V <sub>R</sub> = 30V
Junction Capacitance	C <sub>J</sub>	—	110	—	pF	V <sub>R</sub> = 4V, f = 1.0MHz

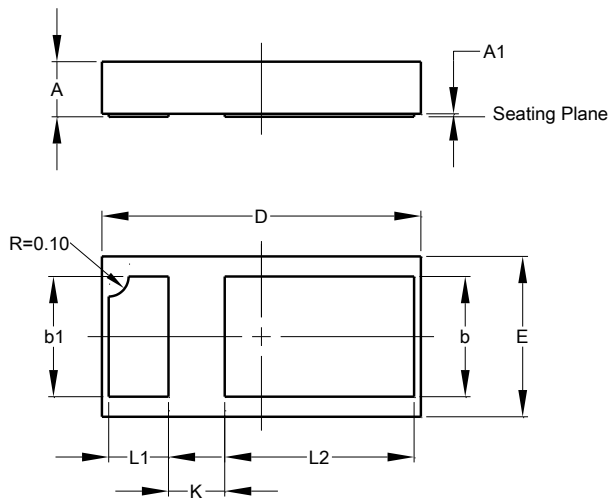
Notes: 5. Device mounted on FR-4 PCB, 2oz. Copper, minimum recommended pad layout per <http://www.diodes.com/package-outlines.html>.  
 6. Short duration pulse test used to minimize self-heating effect.





## Package Outline Dimensions (Note 7)

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

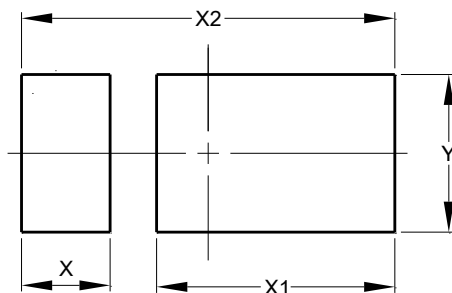


X3-WLB1608-2			
Dim	Min	Max	Typ
A	0.250	0.300	0.275
A1	-	0.015	-
b	-	-	0.600
b1	-	-	0.600
D	1.57	1.63	1.60
E	0.77	0.83	0.80
K	-	-	0.282
L1	0.25	0.35	0.30
L2	0.90	1.00	0.95
All Dimensions in mm			

Note 7: Device side walls are electrically active bare silicon. Avoid contact of solder or flux on the side walls during the PCB assembly process.

## Suggested Pad Layout

Please see <http://www.diodes.com/package-outlines.html> for the latest version.



Dimensions	Value (in mm)
X	0.385
X1	1.035
X2	1.622
Y	0.690

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