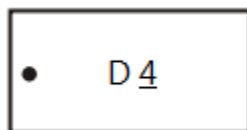
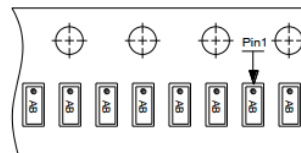


Marking Information



D4 = Product Type Marking Code

Dot Denotes Cathode Side



Maximum Ratings (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_{RM}		
Average Rectified Output Current	I_O	1	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	8	A
Repetitive Peak Forward Current ($t_p = 1\text{ms}$, duty cycle = 25%)	I_{FRM}	5	A

Thermal Characteristics (Per Leg)

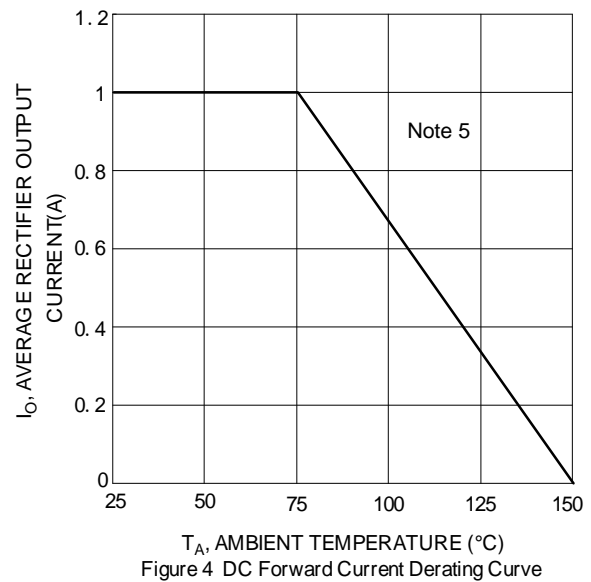
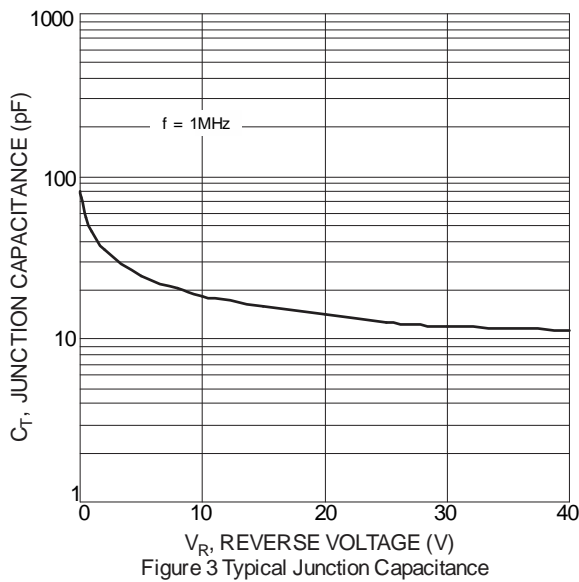
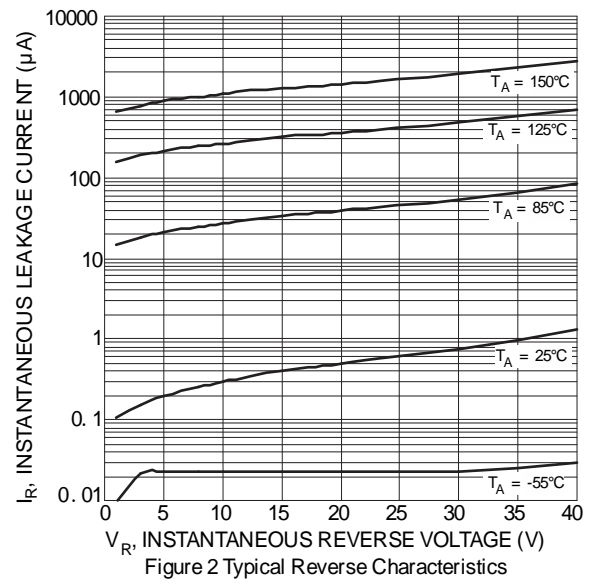
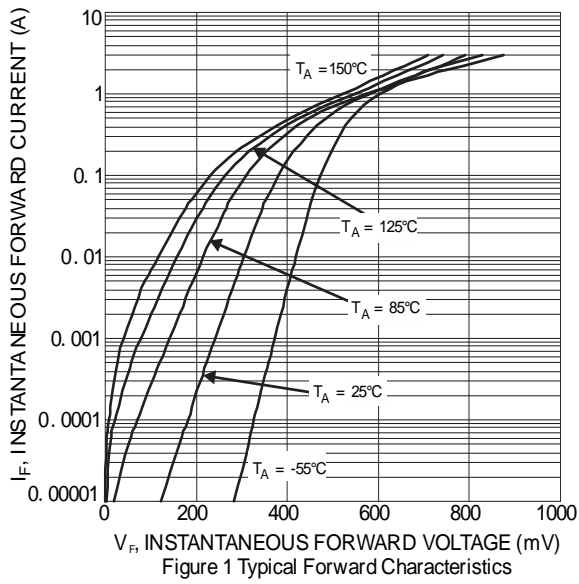
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Case (Note 5)	$R_{\theta JA}$	130	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150	$^\circ\text{C}$

Electrical Characteristics (Per Leg) (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage Drop (Note 6)	V_F	—	0.49	0.56	V	$I_F = 0.5\text{A}, T_J = +25^\circ\text{C}$
		—	0.42	—		$I_F = 0.5\text{A}, T_J = +125^\circ\text{C}$
		—	0.59	0.66		$I_F = 1\text{A}, T_J = +25^\circ\text{C}$
		—	0.55	—		$I_F = 1\text{A}, T_J = +125^\circ\text{C}$
Leakage Current (Note 6)	I_R	—	0.0006	0.004	mA	$V_R = 10\text{V}, T_J = +25^\circ\text{C}$
		—	0.002	0.02		$V_R = 40\text{V}, T_J = +25^\circ\text{C}$
		—	0.80	—		$V_R = 40\text{V}, T_J = +125^\circ\text{C}$
Reverse Recovery Time	t_{rr}	—	8.4	—	ns	$I_F = 10\text{mA}, I_{rrm} = 0.1I_r, T_A = +25^\circ\text{C}$
Total Capacitance	C_T	—	25	—	pF	$V_R = 5\text{V}, f = 1\text{MHz}$

Notes: 5. Test with FR-4 PC board 1-inch sq. copper pad, 2oz.

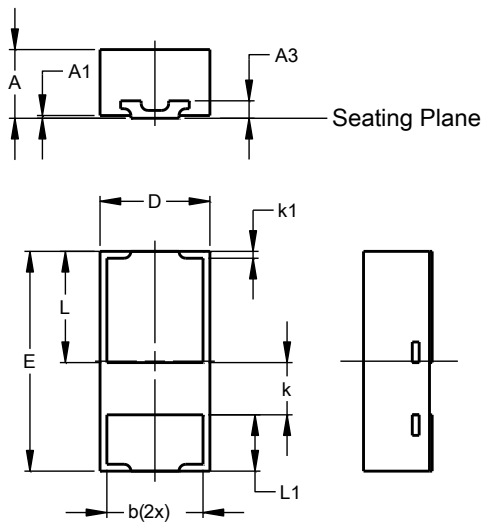
6. Short duration pulse test used to minimize self-heating effect.



Package Outline Dimensions

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

U-DFN1608-2

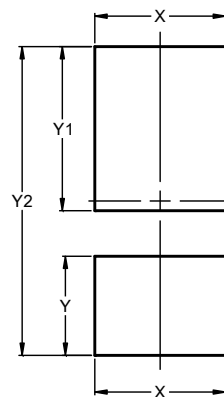


U-DFN1608-2			
Dim	Min	Max	Typ
A	0.47	0.53	0.50
A1	0.00	0.05	0.02
A3	-	-	0.127
b	0.65	0.75	0.70
D	0.75	0.85	0.80
E	1.55	1.65	1.60
k	0.38 BSC		
k1	0.05 BSC		
L	0.76	0.86	0.81
L1	0.36	0.46	0.41
All Dimensions in mm			

Suggested Pad Layout

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

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Dimensions	Value (in mm)
X	0.800
Y	0.610
Y1	1.010
Y2	1.900

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