

Maximum Ratings (@ $T_A = +25$ °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 Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _{RM}	100	V
RMS Reverse Voltage	V _{R(RMS)}	70	V
Average Rectified Output Current	Io	500	mA
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (Per Diode)	I _{FSM}	8	Α

Thermal Characteristics

Characteristic	Symbol	Тур	Max	Unit
Power Dissipation (Note 5)	P _D	-	0.56	W
Thermal Resistance Junction to Ambient Air (Note 5)	$R_{ heta JA}$	=	222	°C/W
Thermal Resistance Junction to Ambient Air (Note 6)	$R_{ hetaJA}$	=	149	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to	+150	°C

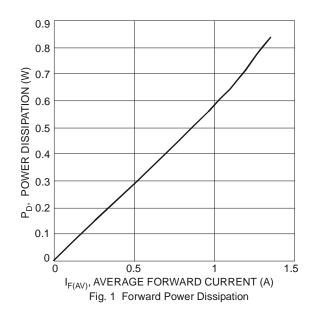
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

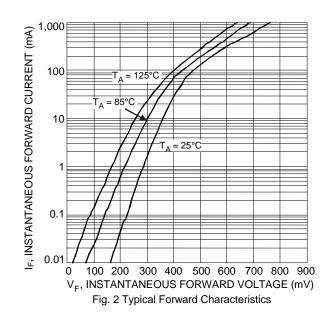
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	100	-	-	V	$I_R = 250 \mu A$
Forward Voltage (Per Diode)	V _F	-	0.54 0.67 0.56	0.60 0.73 0.63	V	$I_F = 0.25A, T_J = +25^{\circ}C$ $I_F = 0.5A, T_J = +25^{\circ}C$ $I_F = 0.5A, T_J = +125^{\circ}C$
Reverse Current (Note 7) (Per Diode)	I _R	-	0.3 32	25 250	μΑ	V _R = 100V, T _J = +25°C V _R = 100V, T _J = +125°C

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Notes:

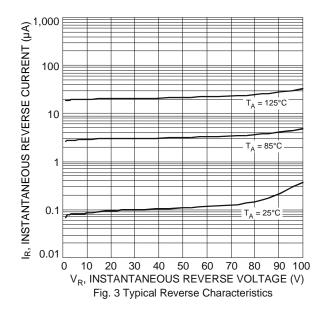
- 5. FR-4 PCB, 2 oz. copper, minimum recommended pad layout per http://www.diodes.com/package-outlines.html.
- 6. Polymide PCB, 2 oz. copper; minimum recommended pad layout per http://www.diodes.com/package-outlines.html.
 7. Short duration pulse test used to minimize self-heating effect.

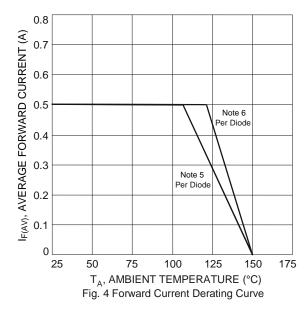


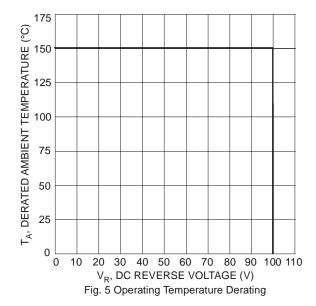










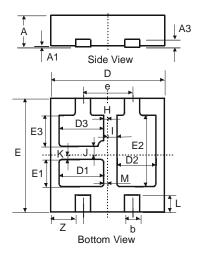




Package Outline Dimensions

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

U-DFN3030-4

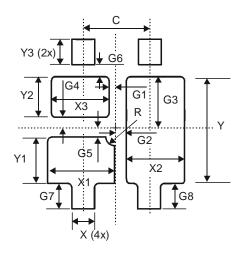


	U-DFN3030-4						
Dim	Min	Max	Тур	Dim	Min	Max	Тур
Α	0.57	0.63	0.60	E1	0.615	0.815	0.715
A1	0	0.05	0.02	E2	1.78	1.98	1.88
А3	-	-	0.15	E3	0.715	0.915	0.815
В	0.35	0.45	0.40	Н	0.05	0.15	0.10
D	2.90	3.10	3.00		0.20	0.30	0.25
D1	1.075	1.275	1.175	J	0.185	0.285	0.235
D2	0.925	1.125	1.025	K	0.065	0.165	0.115
D3	1.075	1.275	1.175	L	0.30	0.60	0.45
E	2.90	3.10	3.00	M	0.05	0.15	0.10
е	-	-	1.30	Z	-	-	0.65
	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)
C	1.300
G1	0.100
G2	0.150
G3	0.830
G4	0.115
G5	0.135
G6	0.170
G7	0.500
G8	0.500
R	0.150
Х	0.500
X1	1.375
X2	1.225
Х3	1.175
Υ	1.980
Y1	1.015
Y2	0.715
Y3	0.650



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