

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 _R WM	200	V
RMS Reverse Voltage	V _{R(RMS)}	141	V
Average Rectified Output Current	Io	3	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	180	Α

Thermal Characteristics

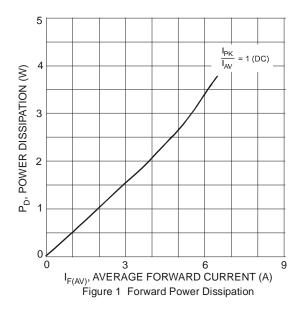
Characteristic	Symbol	Тур	Max	Unit
Thermal Resistance Junction to Soldering Point	Reus	_	2.0	°C/W
Thermal Resistance Junction to Ambient Air (Note 6) T _A = +25°C	$R_{ heta JA}$	75	_	°C/W
Thermal Resistance Junction to Ambient Air (Note 7) T _A = +25°C	R _{0JA}	60	_	°C/W
Thermal Resistance Junction to Ambient Air (Note 8) T _A = +25°C	$R_{ heta JA}$	45	_	°C/W
Operating Temperature Range	TJ	-65 to	+150	°C
Storage Temperature Range	T _{STG}	-65 to	+175	°C

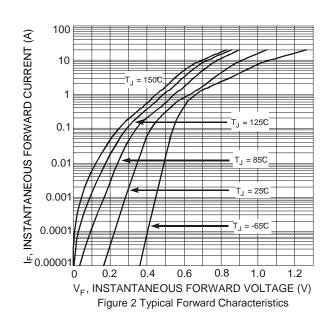
Electrical Characteristics (@ $T_A = +25$ °C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 9)	V _{(BR)R}	200			V	$I_R = 10\mu A$
	V _F	_	0.75	0.78	V	$I_F = 3A, T_S = +25^{\circ}C$
Forward Voltage		_	0.59	0.64		$I_F = 3A, T_S = +125$ °C
l olward voltage		_	0.82	0.88		$I_F = 6A, T_S = +25^{\circ}C$
		_	0.66	0.71		$I_F = 6A, T_S = +125$ °C
Reverse Leakage Current (Note 9)	I _R	_	1	10	μΑ	$T_S = +25^{\circ}C, V_R = 200V$
Neverse Leakage Guiterii (Note 9)		_	8.0	4.5	mA	$T_S = +125$ °C, $V_R = 200$ V

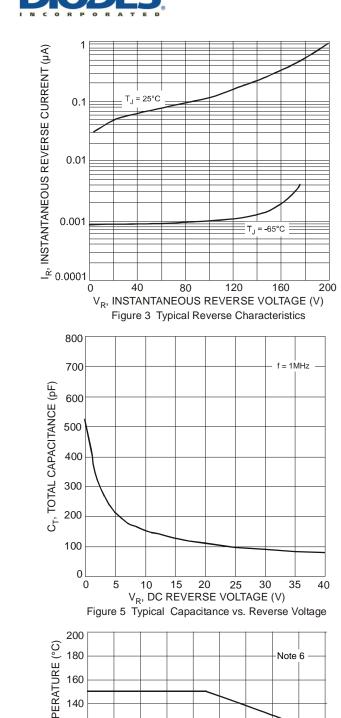
Notes:

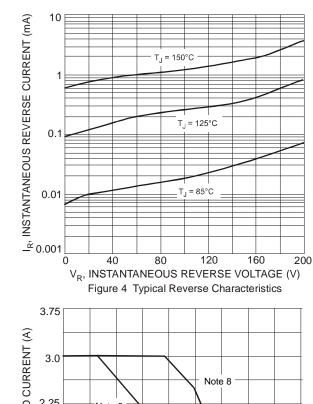
- 6. FR-4 PCB, 2oz. Copper, minimum recommended pad layout per http://www.diodes.com/package-outlines.html.
- 7. Polymide PCB, 2oz. Copper, minimum recommended pad layout per http://www.diodes.com/package-outlines.html.
- 8. Polymide PCB, 2oz. Copper. Cathode pad dimensions 9.4mm x 7.2mm. Anode pad dimensions 2.7mm x 1.6mm.
- 9. Short duration pulse test used to minimize self-heating effect.

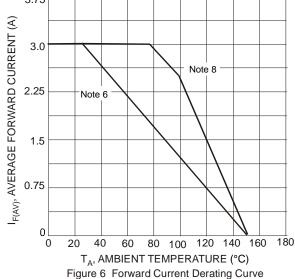










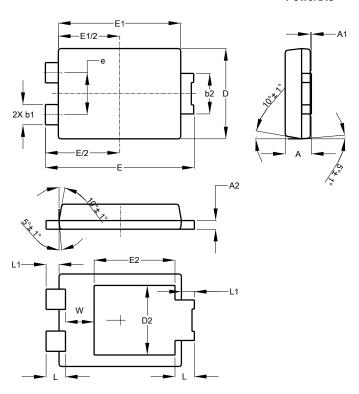




Package Outline Dimensions

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

PowerDI5

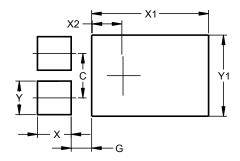


PowerDI5					
Dim	Min	Max	Тур		
Α	1.05	1.15	1.10		
A1	0.00	0.05			
A2	0.33	0.43	0.381		
b1	0.80	0.99	0.89		
b2	1.70	1.88	1.78		
D	3.90	4.05	3.966		
D2			3.054		
Е	6.40	6.60	6.51		
е			1.84		
E1	5.30	5.45	5.37		
E2			3.549		
L	0.75	0.95	0.85		
L1	0.50	0.65	0.57		
W	1.10	1.41	1.255		
All Dimensions in mm					

Suggested Pad Layout

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

PowerDI5



Dimensions	Value (in mm)
С	1.840
G	0.852
Х	1.400
X1	4.860
X2	1.310
Y	1.390
V1	3 360



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