

Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM}	20	٧
Average Rectified Output Current	Io	8	Α
Non-Repetitive Peak Forward Surge Current 8.3ms	I _{FSM}	180	А

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 6)	$R_{\theta JA}$	20	°C/W
Typical Thermal Resistance Junction to Case (Note 6)	$R_{ heta JC}$	3	°C/W
Operating and Storage Temperature Range	$T_{J,}T_{STG}$	-55 to +150	°C

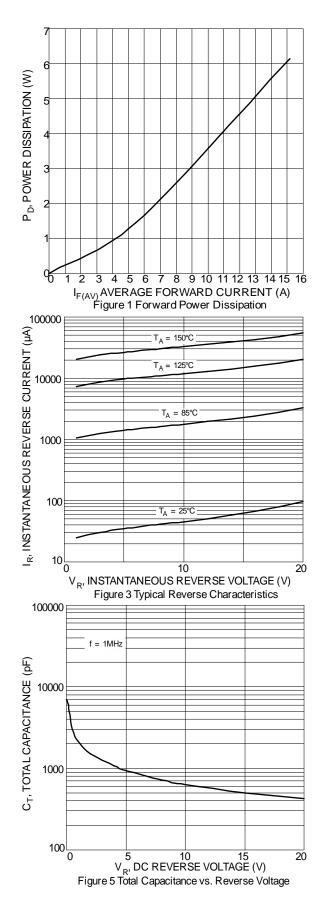
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

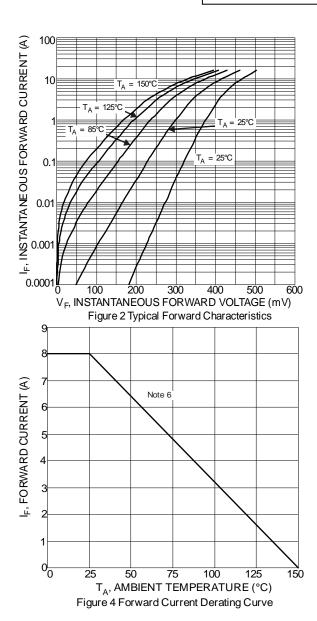
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V _F	-	0.40	0.45	V	I _F = 8A, T _A = +25°C
		-	0.32	0.37		$I_F = 8A, T_A = +125$ °C
Leakage Current (Note 7)	I _R	_	_	0.5	mA	$V_R = 20V, T_A = +25^{\circ}C$
			_	75		$V_R = 20V, T_A = +125$ °C

Notes:

- 6. Device mounted on 2inch x 2inch Al board.
- 7. Short duration pulse test used to minimize self-heating effect.



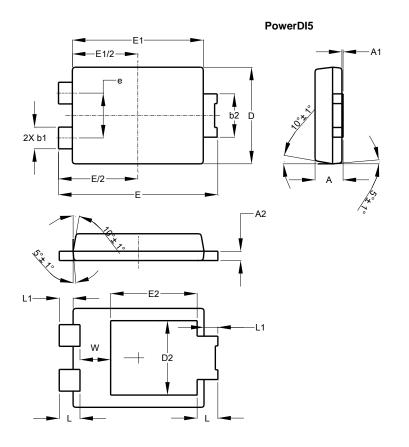






Package Outline Dimensions

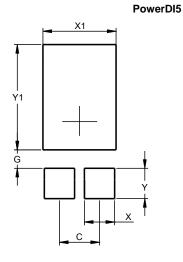
Please see http://www.diodes.com/package-outlines.html for the latest version.



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	6.504	
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

 $\label{please} Please see \ http://www.diodes.com/package-outlines.html \ for \ the \ latest \ version.$



Dimensions	Value (in mm)
С	1.840
G	0.852
Х	1.390
X1	3.360
Y	1.400
V1	4 860



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