

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}	120	V
Average Rectified Output Current	Io	12	Α
Non-Repetitive Peak Forward Surge Current 8.3mS	I _{FSM}	300	A

Thermal Characteristics

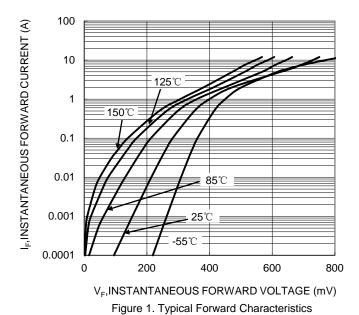
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 6)	$R_{\theta JA}$	18	°C/W
Operating and Storage Temperature Range	$T_{J,}T_{STG}$	-55 to +150	°C

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

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V _F	_	0.75	0.83	\/	I _F = 12A, T _A = +25°C
		_	_	0.71		I _F = 12A, T _A = +125°C
Leakage Current (Note 7)	I _R	_	0.01	0.2	mA I	$V_R = 120V$, $T_A = +25^{\circ}C$
		1		30		$V_R = 120V$, $T_A = +125$ °C

Notes:

- 6. Device mounted on FR-4 substrate PC board 16*MRP.
- 7. Short duration pulse test used to minimize self-heating effect.



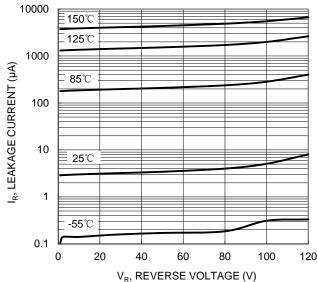


Figure 2. Typical Reverse Characteristics



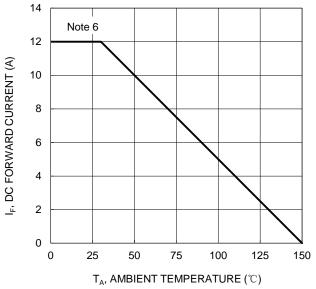
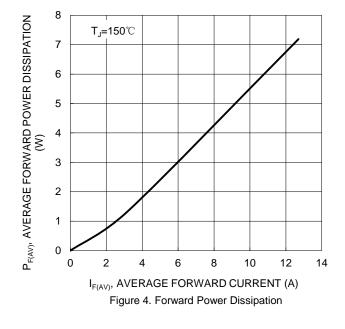


Figure 3. DC Forward Current Derating



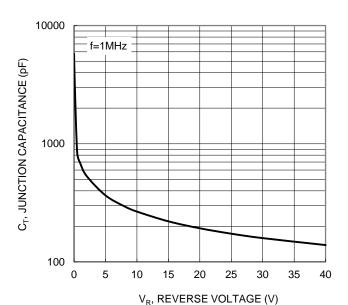
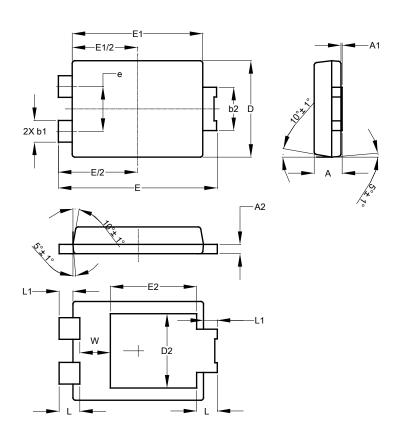


Figure 5. Typical Junction Capacitance



Package Outline Dimensions

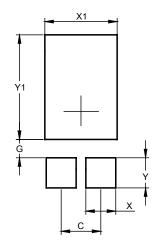
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.



		(p)			
	POWERDI [®] 5				
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		
٦	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 AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for the latest version.



Dimensions	Value (in mm)	
С	1.840	
G	0.852	
Х	1.390	
X1	3.360	
Y	1.400	
Y1	4 860	



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