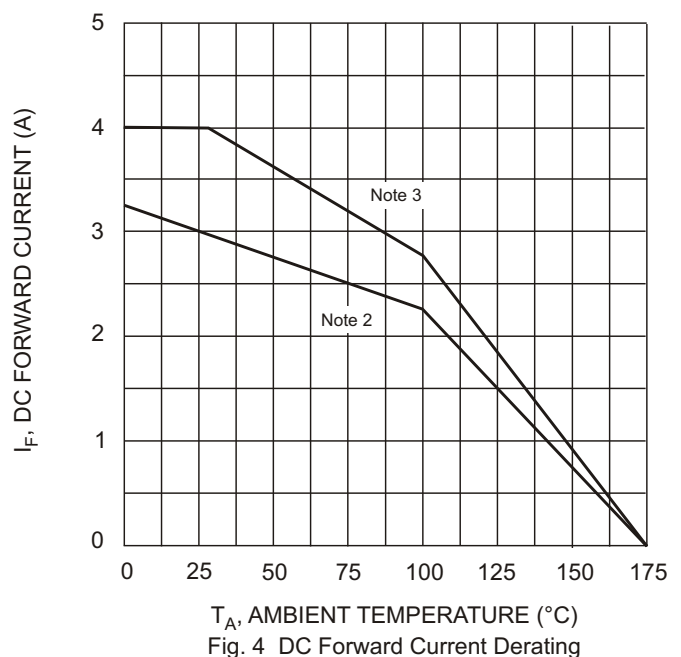
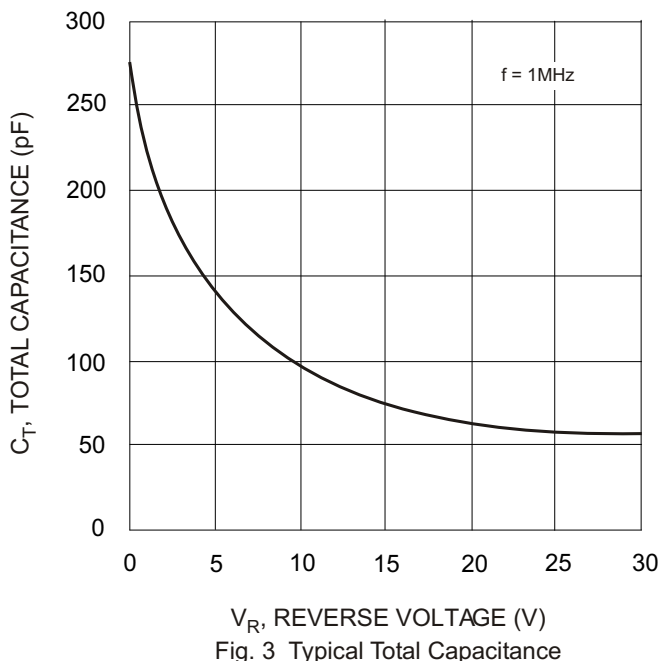
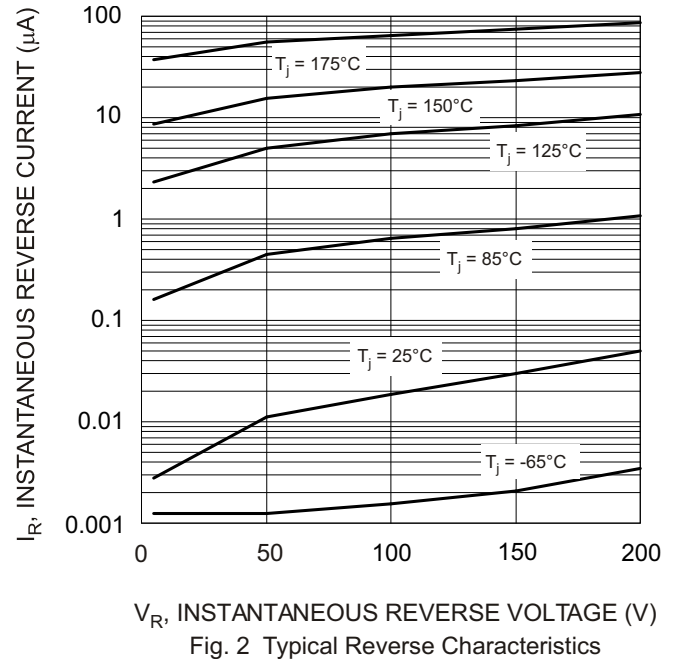
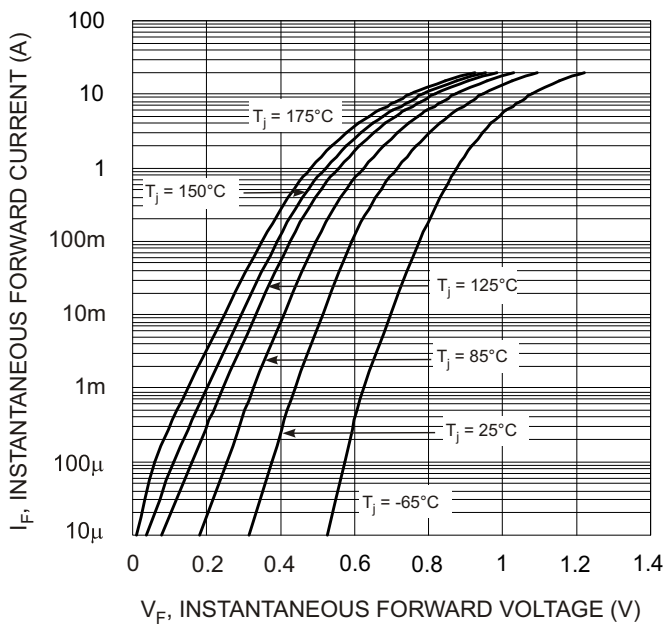
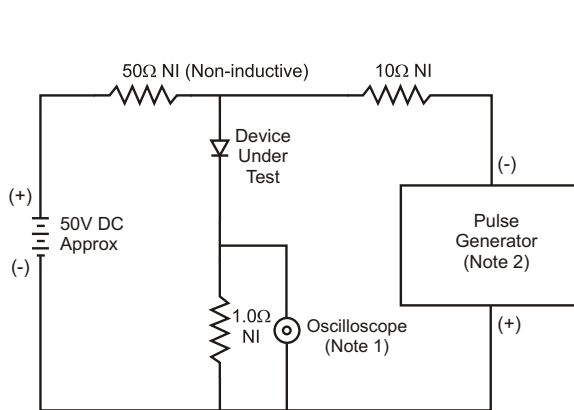
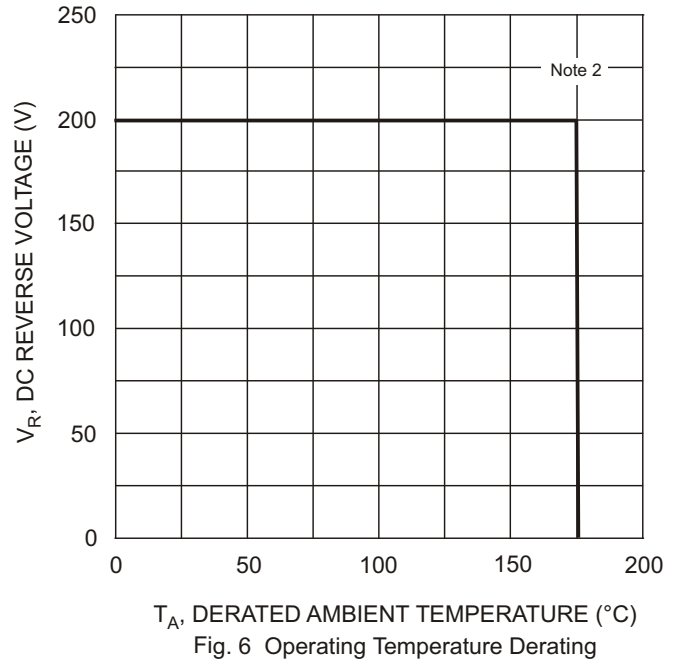
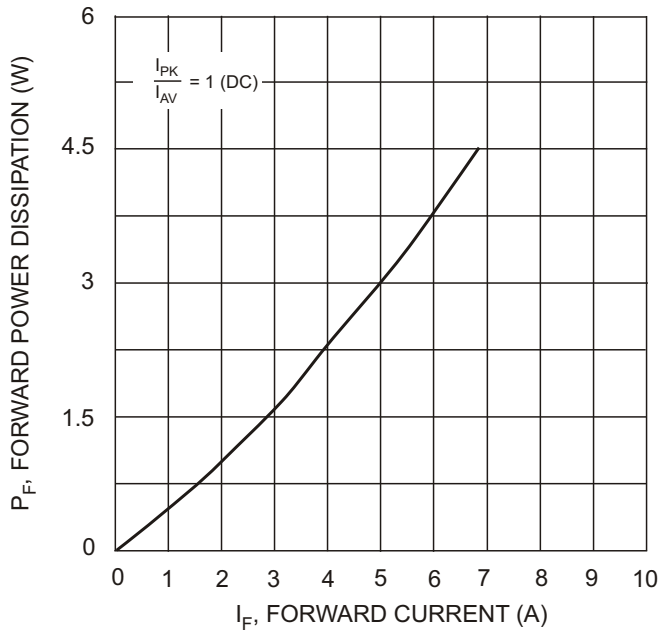


# Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

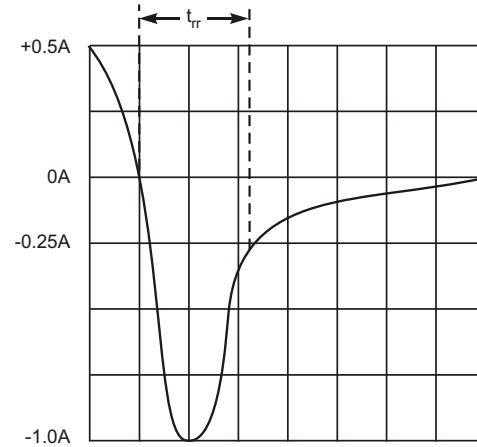
Characteristic	Symbol	Value	Unit	Test Condition
Minimum Reverse Breakdown Voltage (Note 5)	$V_{(BR)R}$	200	V	$I_R = 5\text{ A}$
Maximum Forward Voltage	$V_{FM}$	0.875 0.71 0.89 0.85 0.72 1.25	V	$I_F = 3\text{ A}, T_S = 25^\circ\text{C}$ $I_F = 3\text{ A}, T_S = 150^\circ\text{C}$ $I_F = 4\text{ A}, T_S = 25^\circ\text{C}$ $I_F = 4\text{ A}, T_S = 100^\circ\text{C}$ $I_F = 4\text{ A}, T_S = 150^\circ\text{C}$ $I_F = 12\text{ A}, T_S = 25^\circ\text{C}$
Maximum Reverse Leakage Current (Note 5)	$I_{RM}$	5 150	A	$T_S = 25^\circ\text{C}, V_R = 200\text{V}$ $T_S = 150^\circ\text{C}, V_R = 200\text{V}$
Maximum Reverse Recovery Time	$t_{rr}$	25	ns	$I_F = 0.5\text{A}, I_R = 1.0\text{A}$ $I_{RR} = 0.25\text{A}$ (See figure 7)

Notes: 5. Short duration test pulse used to minimize self-heating effect.





- Notes:
1. Rise Time = 7.0ns max. Input Impedance = 1.0MΩ, 22pF.
  2. Rise Time = 10ns max. Input Impedance = 50Ω.



Set time base for 50/100 ns/cm

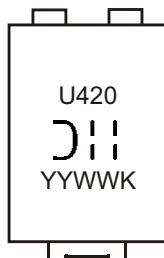
Fig. 7 Reverse Recovery Time Characteristic and Test Circuit


## Ordering Information (Note 6)

Device	Packaging	Shipping
PDU420-13	PowerDI 5	5000/Tape & Reel

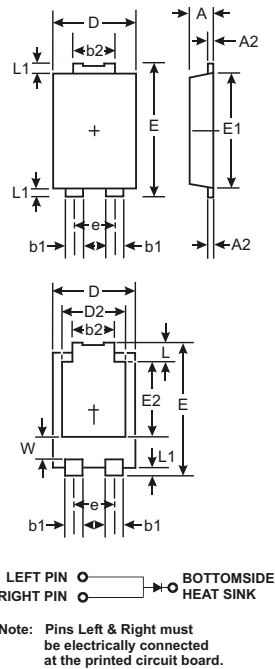
Notes: 6. For Packaging Details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

## Marking Information



U420 = Product type marking code  
 = Manufacturers' code marking  
 YYWW = Date code marking  
 YY = Last digit of year ex: 06 for 2006  
 WW = Week code 01 to 52  
 K = Factory Designator

## Package Outline Dimensions



PowerDI 5		
Dim	Min	Max
A	1.05	1.15
A2	0.33	0.43
b1	0.80	0.99
b2	1.70	1.88
D	3.90	4.05
D2	3.05 NOM	
E	6.40	6.60
e	1.84 NOM	
E1	5.30	5.45
E2	3.55 NOM	
L	0.75	0.95
L1	0.50	0.65
W	1.20	1.50
All Dimensions in mm		

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