

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

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

Characteristic		Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} Vrm	200	V
Average Rectified Output Current	(Per Leg) (Total)	lo	10 20	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	170	А

Thermal Characteristics (Per Leg)

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Case (Note 5)	R _{θJC}	5	°C/W
Typical Thermal Resistance, Junction to Ambient (Note 5)	R _{0JA}	20	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +175	°C

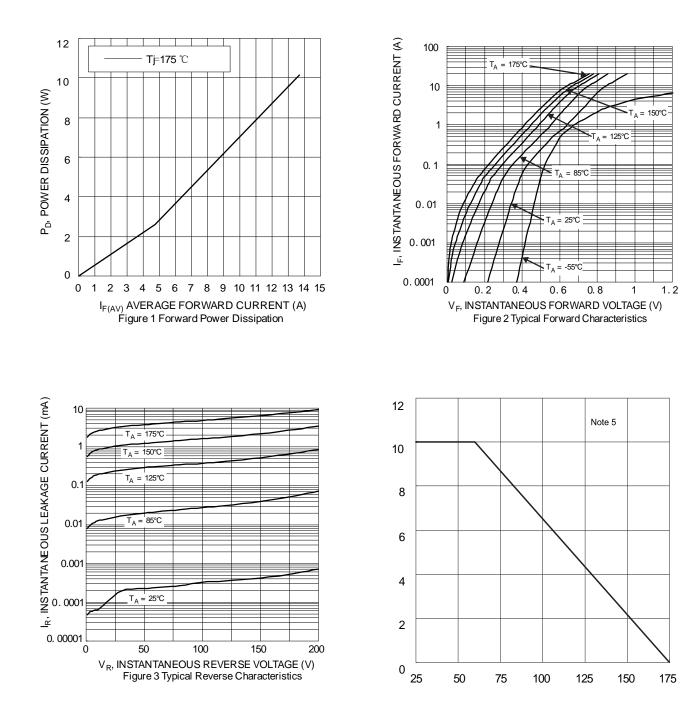
Electrical Characteristics (Per Leg) (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	VF	_	0.84	0.89 0.75	V	I _F = 10A, T _J = +25°C I _F = 10A, T _J = +125°C
Leakage Current (Note 6)	I _R	_		0.1 10	mA	$V_R = 200V, T_J = +25^{\circ}C$ $V_R = 200V, T_J = +125^{\circ}C$

Notes: 5. Test with 2inch Al board.

6. Short duration pulse test used to minimize self-heating effect.



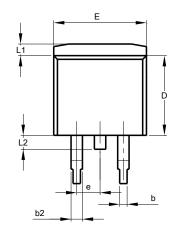


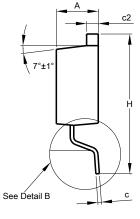
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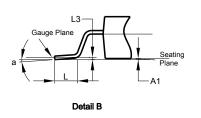


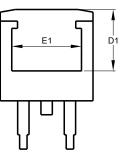
Package Outline Dimensions

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

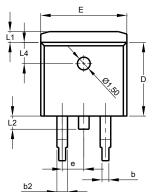


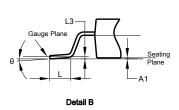


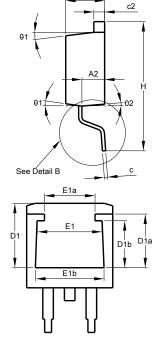




TO263AB (D2PAK)				
Dim	Min	Max	Тур	
Α	4.07	4.82	-	
A1	0.00	0.25	-	
b	0.51	0.99	-	
b2	1.15	1.77	-	
С	0.356	0.73	-	
c2	1.143	1.65	-	
D	8.39	9.65	-	
D1	6.55	-	-	
е	2.54 TYP			
E	9.66 10.66 -			
E1	6.23	-	-	
Н	14.61	15.87	-	
L	1.78	2.79	-	
L1	-	1.67	-	
L2	-	1.77	-	
а	0°	8°	-	
All Dimensions in mm				





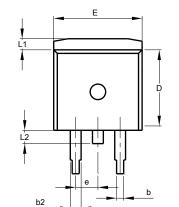


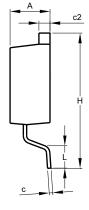
TO263AB (D2PAK) (Type B)						
Dim	Min					
Α	4.40	4.70	4.57			
A1	0.00	0.20	0.10			
A2	2.59	2.79	2.69			
b	0.77	0.90	0.813			
b2	1.20	1.36	1.27			
С	0.356	0.47	0.381			
c2	1.22	1.32	1.27			
D	8.60	8.80	8.70			
D1	6.60	7.80	7.60			
D1a	5.33	6.53	6.33			
D1b			5.54			
e	2.54 BSC					
Е	10.00	10.20	10.10			
E1	6.67	7.87	7.67			
E1a	4.94	6.14	5.94			
E1b	7.06	8.26	8.06			
Н	14.70	15.50	15.10			
L	2.00	2.60	2.30			
L1	1.17	1.40	1.27			
L2	1.45	1.70	1.55			
L3	0.25 BSC					
L4	2.50 REF					
θ	0°	8°	5°			
θ1	5°	9°	7°			
θ2	1°	5°	3°			
All D	All Dimensions in mm					

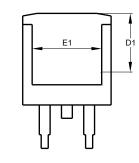


Package Outline Dimensions (cont.)

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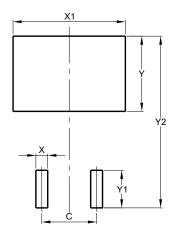




TO263AB (D2PAK)					
Туре С					
Dim	Min	Max	Тур		
Α	4.30	4.70	-		
b	0.70	0.90	-		
b2	1.15	1.35	-		
С	0.40	0.60	-		
c2	1.20	1.40	-		
D	9.00	9.40	-		
D1	7.96	8.36	-		
E	9.80	10.20	-		
E1	7.85	8.05	-		
е	2.34	2.74			
Н	15.00	15.87	-		
L	2.24	2.84	-		
L1	1.00	1.40	-		
L2	1.20	1.60	-		
All Dimensions in mm					

Suggested Pad Layout

Please see AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for latest version.



Dimensions	Value (in mm)
С	5.08
X	1.10
X1	10.41
Y	3.50
Y1	7.01
Y2	15.99

NEW PRODUCT



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