

Maximum Ratings (Per Leg) (@TA = +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} V _{RM}	150	V
Average Rectified Output Current (Per L (Tota	o, II	10 20	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	lfsm	170	А

Thermal Characteristics (Per Leg)

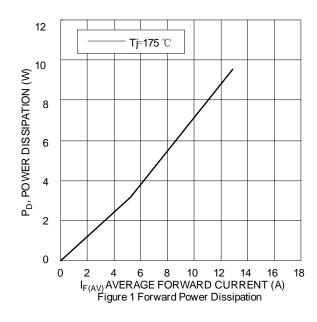
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Case (Note 5)	R _θ JC	5	°C/W
Typical Thermal Resistance, Junction to Ambient (Note 5)	R _θ JA	20	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +175	°C

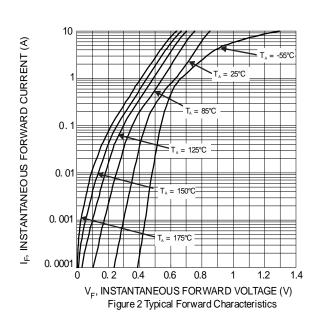
Electrical Characteristics (Per Leg) (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V _F	_	0.86	0.90	I V	$I_F = 10A, T_J = +25^{\circ}C$
		_	_	0.75		$I_F = 10A, T_J = +125$ °C
Leakage Current (Note 6)	I _R		_	0.05	I MA	V _R = 150V, T _J = +25°C
			_	10		$V_R = 150V, T_J = +125$ °C

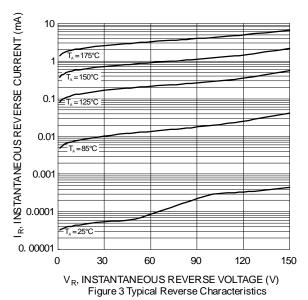
Notes:

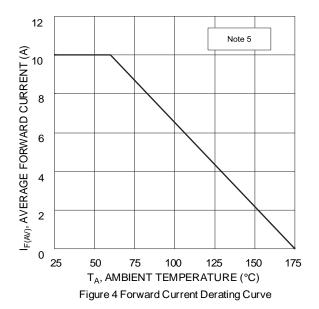
- 5. Test with 2inch Al board.
- 6. Short duration pulse test used to minimize self-heating effect.





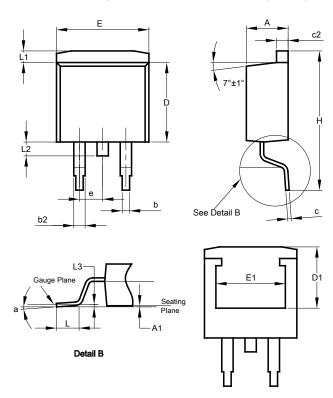






Package Outline Dimensions

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

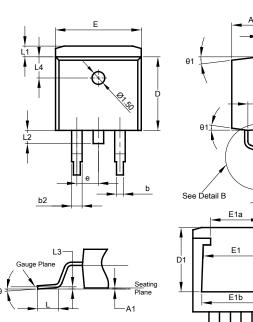


TO263AB (D2PAK)					
Dim	Min	Max	Тур		
Α	4.07	4.82	-		
A1	0.00	0.25	-		
b	0.51	0.99	-		
b2	1.15	1.77	-		
С	0.356	0.73	-		
c2	1.143	1.65	-		
D	8.39	9.65	-		
D1	6.55	-	-		
е		2.54 TYP			
E	9.66	10.66	-		
E1	6.23	-	-		
Н	14.61	15.87	-		
L	1.78	2.79	-		
L1	-	1.67	-		
L2	-	1.77	-		
а	0°	8°	-		
All Dimensions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

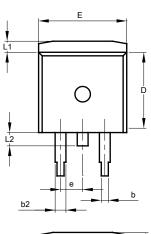


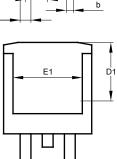
Package Outline Dimensions (cont.)

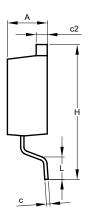
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TO263AB (D2PAK)				
	(Тур			
Dim	Min	Max	Тур	
Α	4.40	4.70	4.57	
A1	0.00	0.20	0.10	
A2	2.59	2.79	2.69	
b	0.77	0.90	0.813	
b2	1.20	1.36	1.27	
С	0.356	0.47	0.381	
c2	1.22	1.32	1.27	
D	8.60	8.80	8.70	
D1	6.60	7.80	7.60	
D1a	5.33	6.53	6.33	
D1b	4.54	5.74	5.54	
е	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	
Η	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 Dimensions in mm				





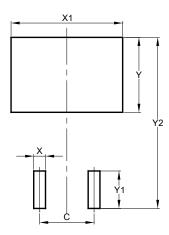


TO263AB (D2PAK)					
	Type C				
Dim	Min	Max	Тур		
Α	4.30	4.70	-		
b	0.70	0.90	-		
b2	1.15	1.35	-		
С	0.40	0.60	-		
c2	1.20	1.40	-		
D	9.00	9.40	-		
D1	7.96	8.36	-		
Е	9.80	10.20	-		
E1	7.85	8.05	-		
е	2.34	2.74			
Н	15.00	15.87	-		
L	2.24	2.84	-		
L1	1.00	1.40	-		
L2	1.20	1.60	-		
All Dimensions in 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
Х	1.10
X1	10.41
Υ	3.50
Y1	7.01
Y2	15.99



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