

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 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)

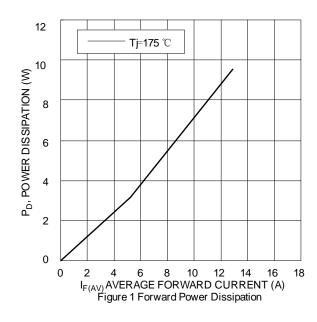
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Case (Note 5)	R _θ JC	5	°C/W
Typical Thermal Resistance, Junction to Ambient (Note 5)	R _θ JA	20	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +175	°C

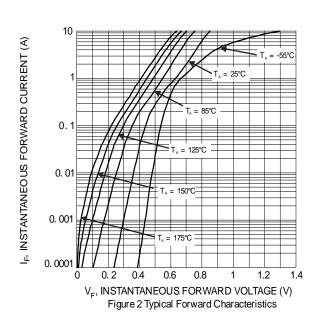
Electrical Characteristics (Per Leg) (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop V _F	_	0.86	0.90	V	$I_F = 10A, T_J = +25^{\circ}C$	
	۷F	_	_	0.75	V	$I_F = 10A, T_J = +125$ °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

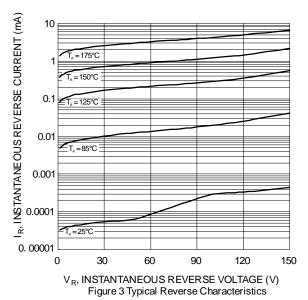
Notes:

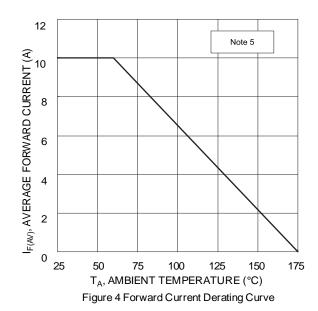
- 5. Test with 2inch Al board.
- 6. Short duration pulse test used to minimize self-heating effect.





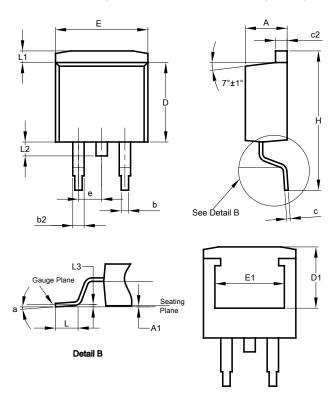






Package Outline Dimensions

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

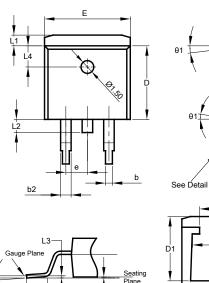


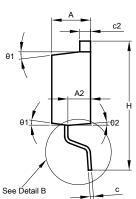
TO263AB (D2PAK)				
Dim	Min	Max	Тур	
Α	4.07	4.82	-	
A1	0.00	0.25	-	
b	0.51	0.99	1	
b2	1.15	1.77	-	
С	0.356	0.73	-	
c2	1.143	1.65	-	
D	8.39	9.65	-	
D1	6.55	-	-	
е	2.54 TYP			
E	9.66	10.66	-	
E1	6.23	-	-	
Н	14.61	15.87	-	
L	1.78	2.79	-	
L1	-	1.67	-	
L2	-	1.77	-	
а	0°	8°	-	
All Dimensions in mm				

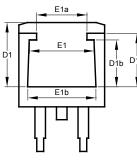


Package Outline Dimensions (cont.)

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



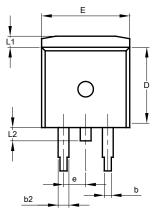


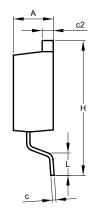


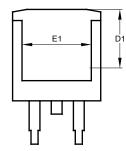
TO263AB (D2PAK) (Type B)					
Dim	Min Max Typ				
Α	4.40	4.70	4.57		
A1	0.00	0.20	0.10		
A2	2.59	2.79	2.69		
b	0.77	0.90	0.813		
b2	1.20	1.36	1.27		
С	0.356	0.47	0.381		
c2	1.22	1.32	1.27		
D	8.60	8.80	8.70		
D1	6.60 7.80 7.60				
D1a	5.33	6.53	6.33		
D1b	4.54 5.74 5.54				
е	2.54 BSC				
E	10.00	10.20	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 Dimensions in mm					

TO263AB (D2PAK)
Type C
im Min Max T

4.30 4.70





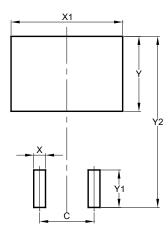


	b	0.70	0.90	
	b2	1.15	1.35	
	С	0.40	0.60	
	c2	1.20	1.40	
	D	9.00	9.40	
	D1	7.96	8.36	
	Е	9.80	10.20	
	E1	7.85	8.05	
	е	2.34	2.74	
	Н	15.00	15.87	
	L	2.24	2.84	
	L1	1.00	1.40	
	L2	1.20	1.60	
	All Di	mens	ions in	Ī
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Suggested Pad Layout

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
Y	3.50
Y1	7.01
Y2	15.99



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