

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

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

For capac	citance loa	d, derate	current by	/ 20%.

Characteristic		Symbol	Value	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vrm	200	V	
Average Rectified Output Current	(Per Leg) (Total)	lo	5 10	А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	110	А	

Thermal Characteristics (Per Leg)

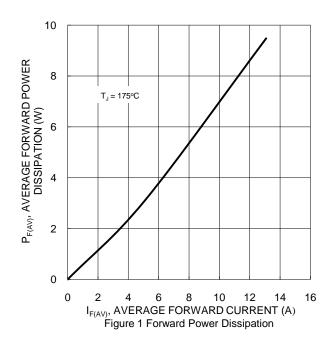
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Case (Note 5)	$R_{ extsf{ heta}JC}$	5	°C/W
Typical Thermal Resistance, Junction to Ambient (Note 5)	R _{0JA}	20	°C/W
Operating and Storage Temperature Range	TJ, T _{STG}	-55 to +175	°C

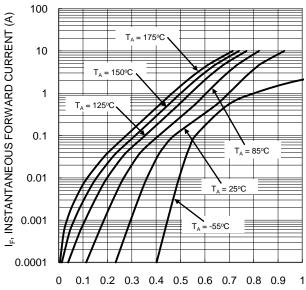
Electrical Characteristics (Per Leg) (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V _F		0.85	0.91	V	I _F = 5A, T _J = +25°C
Torward Voltage Drop		—	0.84	v	$I_F = 5A, T_J = +125^{\circ}C$	
Leakage Current (Note 6)	1-	_	_	0.1	mA	V _R = 200V, T _J = +25°C
Leakage Current (Note 0)	IR		_	10	ША	$V_R = 200V, T_J = +125^{\circ}C$

Notes: 5. Test with 2 inch Al board.

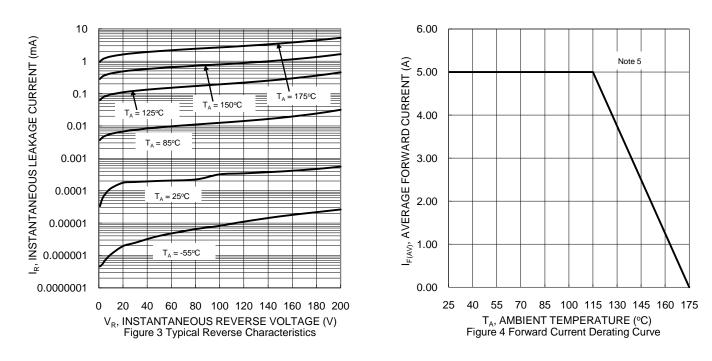
6. Short duration pulse test used to minimize self-heating effect.





V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Figure 2 Typical Forward Characteristics



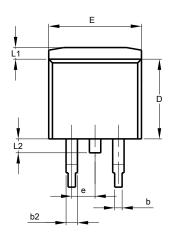


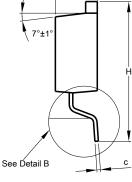
c2

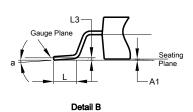
Package Outline Dimensions

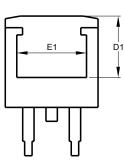
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for latest version.

(1) Package Type: TO263AB (D2PAK)









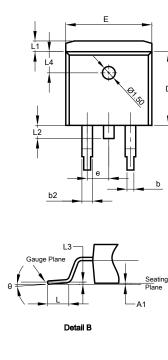
TO263AB (D2PAK)					
Dim	Min	Min Max Typ			
Α	4.07	4.82	-		
A1	0.00	0.25	-		
b	0.51	0.99	-		
b2	1.15	1.77	-		
С	0.356	0.73	-		
c2	1.143	1.143 1.65 -			
D	8.39	9.65	-		
D1	6.55				
е	2.54 TYP				
Е	9.66 10.66 -				
E1	6.23	6.23			
Н	14.61	14.61 15.87 -			
L	1.78	2.79	-		
L1	-	1.67	-		
L2	-	1.77	-		
а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

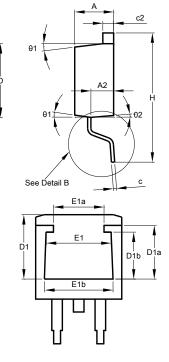


Package Outline Dimensions (cont.)

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

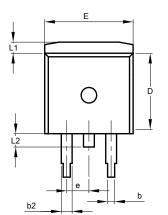
(2) Package Type: TO263AB (D2PAK) (Type B)

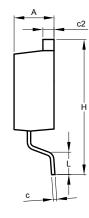


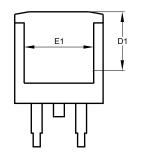


TO263AB (D2PAK) (Type B)					
Dim	Min	Max	Тур		
Α	4.40	4.70	4.57		
A1	0.00 0.20 0.10				
A2	2.59				
b	0.77	0.90	0.813		
b2	1.20	1.36	1.27		
С	0.356	0.47	0.381		
c2	1.22	1.32	1.27		
D	8.60	8.80	8.70		
D1	6.60 7.80 7.60				
D1a	5.33	6.33			
D1b	4.54 5.74 5.54				
е	2.54 BSC				
E	10.00 10.20 10		10.10		
E1	6.67	7.87	7.67		
E1a	4.94	6.14	5.94		
E1b	7.06	8.26	8.06		
H	14.70	15.50	15.10		
L	2.00	2.60	2.30		
L1			1.27		
L2	1.45 1.70 1.55		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				

(3) Package Type: TO263AB (D2PAK) (Type C)







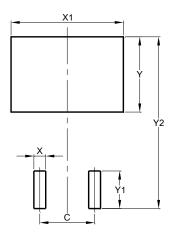
то	TO263AB (D2PAK) Type C				
Dim	Min	Max	Тур		
Α	4.30	4.70	-		
b	0.70	0.90	-		
b2	1.15	1.35	-		
С	0.40	0.60	-		
c2	1.20	1.40	-		
D	9.00	9.40	-		
D1	7.96	8.36	-		
E	9.80	10.20	-		
E1	7.85	8.05	-		
е	2.34	2.74			
Н	15.00	15.87	-		
L	2.24	2.84	-		
L1	1.00	1.40	-		
L2	1.20	1.60	-		
All Dimensions in mm					

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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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