

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}	100	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)	$R_{ hetaJC}$	6	°C/W
Typical Thermal Resistance, Junction to Ambient (Note 5)	$R_{ hetaJA}$	22	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +175	°C

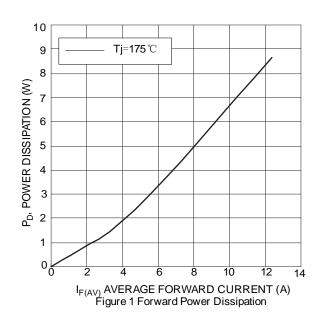
Electrical Characteristics (Per Leg) (@TA = +25°C, unless otherwise specified.)

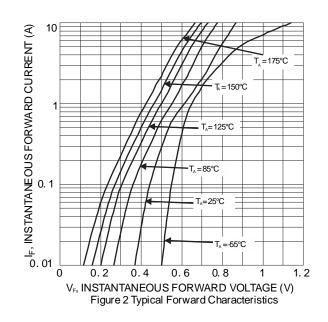
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V _F	-	0.79	0.84	V	$I_F = 5A, T_J = +25^{\circ}C$
		1	1	0.72		$I_F = 5A, T_J = +125$ °C
Lockage Current (Note C)	I _R	_	_	0.1	A	$V_R = 100V, T_J = +25$ °C
Leakage Current (Note 6)		_	_	10	mA	$V_R = 100V, T_J = +125$ °C

Notes: 5. Te

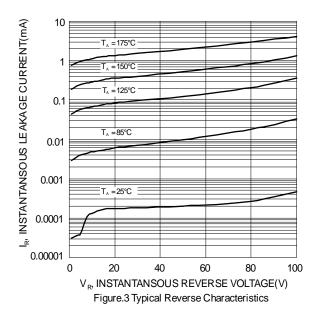
5. Test with 2in. Al board.

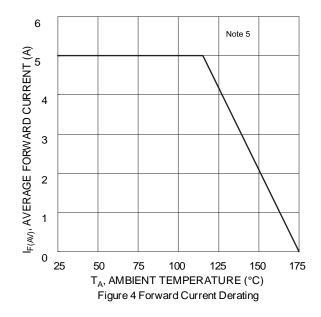
6. Short duration pulse test used to minimize self-heating effect.





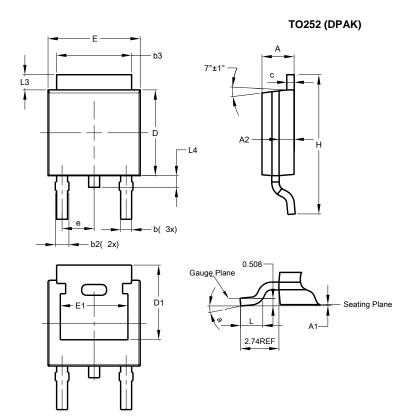






Package Outline Dimensions

Please see http://www.diodes.com/package-outlines.html for the latest version.



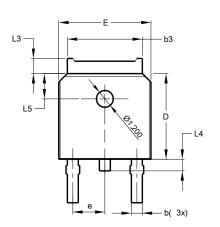
TO252 (DPAK)			
Dim	Min	Max	Тур
Α	2.19	2.39	2.29
A 1	0.00	0.13	0.08
A2	0.97	1.17	1.07
p	0.64	0.88	0.783
b2	0.76	1.14	0.95
b3	5.21	5.46	5.33
С	0.45	0.58	0.531
D	6.00	6.20	6.10
D1	5.21	-	-
е	-	-	2.286
Е	6.45	6.70	6.58
E1	4.32	-	-
Н	9.40	10.41	9.91
L	1.40	1.78	1.59
L3	0.88	1.27	1.08
L4	0.64	1.02	0.83
а	0°	10°	-
All Dimensions in mm			

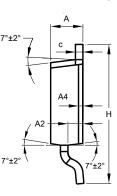


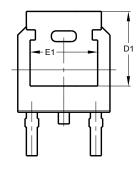
Package Outline Dimensions (continued)

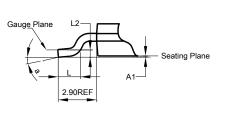
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TO252 (DPAK) (Type TH)



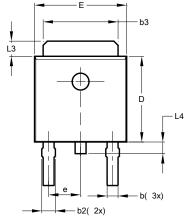


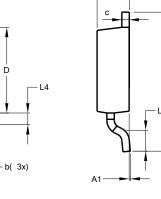


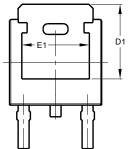


TO252 (DPAK)				
(Type TH)				
Dim	Min	Max	Тур	
Α	2.20	2.38	2.30	
A 1	0.00	0.10	-	
A2	0.97	1.17	1.07	
A4	0	.10 RE	F	
b	0.72	0.85	0.78	
b3	5.23	5.45	5.33	
C	0.47	0.58	0.53	
D	6.00	6.20	6.10	
D1	5.30 REF			
е	2.286 BSC			
Е	6.50	6.70	6.60	
E1	4.70	4.92	4.83	
I	9.90	10.10	10.30	
L	1.40	1.70	1.60	
L2	0.51 BSC			
L3	0.90	1.25	-	
L4	0.60	1.00	0.80	
L5	1.70	1.90	1.80	
а	0°	8°	-	
All Dimensions in mm				

TO252 (DPAK) (Type BR)





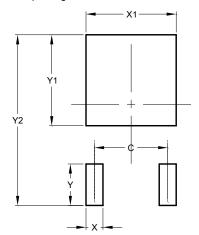


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TO252 (DPAK)				
(Type BR)				
Dim	Min	Max	Тур	
Α	2.20	2.40	-	
A 1	0.00	0.10	-	
b	0.50	0.70	-	
b3	5.20	5.40	-	
C	0.45	0.55	-	
D	5.95	6.25	-	
D1	5.10	5.50	-	
Е	6.45	6.70	-	
E1	4.71	4.91	-	
е	2.24	2.34		
Н	9.45	9.95	-	
L	1.25	1.75	-	
L3	0.95	1.25	-	
L4	0.60	0.90	-	
All Dimensions in mm				



Suggested Pad layout

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Dimensions	Value (in mm)		
С	4.572		
Х	1.060		
X1	5.632		
Y	2.600		
Y1	5.700		
Y2	10.700		

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