

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

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

For capacitive load, derate current by 20%.

Characteristic		Symbol	Value	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm V _{rwm} Vrm	200	V	
Average Rectified Output Current	(Per Leg) (Total)	Io	10 20	А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	150	A	

Thermal Characteristics (Per Leg)

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Case (Note 5)	R _θ JC	6	°C/W
Typical Thermal Resistance, Junction to Ambient (Note 5)	$R_{\theta JA}$	22	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

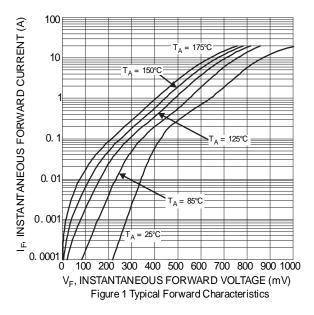
Electrical Characteristics (Per Leg) (@T_A = +25°C, unless otherwise specified.)

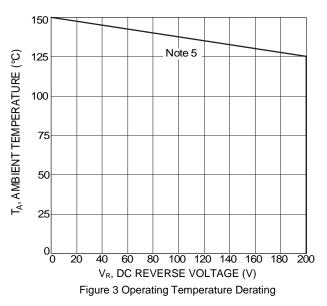
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	VF	_	0.84	0.90		$I_F = 10A, T_J = +25^{\circ}C$
Tolward Voltage Diop	VF	_	0.70	_		$I_F = 10A, T_J = +125$ °C
Lockogo Current (Noto 6)		_	_	0.05	I IIIA	$V_R = 200V, T_J = +25^{\circ}C$
Leakage Current (Note 6)	IR	_	1.0			V _R = 200V, T _J = +125°C

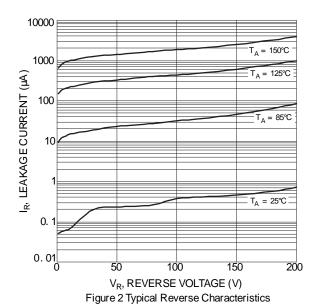
Notes:

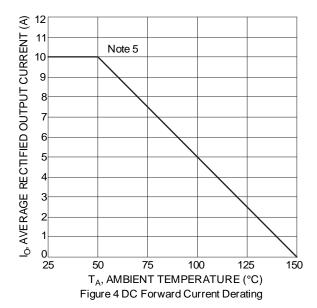
- 5. Test with 2-inch Al board.
- 6. Short duration pulse test used to minimize self-heating effect.









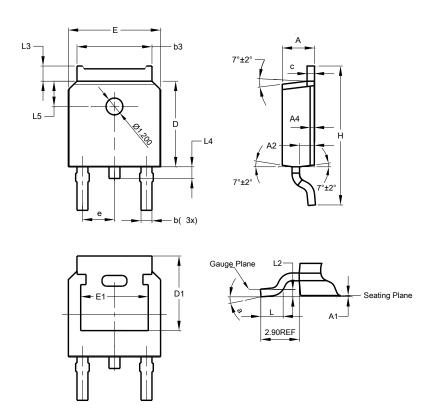




Package Outline Dimensions

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

TO252 (DPAK) (Type TH)

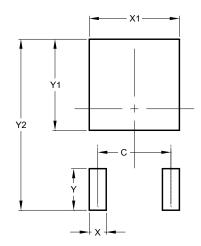


TO252 (DPAK)				
(Type TH)				
Dim	Min	Max	Тур	
Α	2.20	2.38	2.30	
A1	0.00	0.10	-	
A2	0.97	1.17	1.07	
A4	0.10 REF			
b	0.72	0.85	0.78	
b3	5.23	5.45	5.33	
С	0.47	0.58	0.53	
D	6.00	6.20	6.10	
D1	5.30 REF			
е	2.	286 BS	SC	
Е	6.50	6.70	6.60	
E1	4.70	4.92	4.83	
Н	9.90	10.10	10.30	
L	1.40	1.70	1.60	
L2	0.51 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				

Suggested Pad Layout

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TO252 (DPAK) (Type TH)



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



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