

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	٧
RMS Reverse Voltage	V _{R(RMS)}	71	V
Average Rectified Output Current Per Device	Io	10	Α
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 (Note 6)	R _{OJC}	22	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175	°C

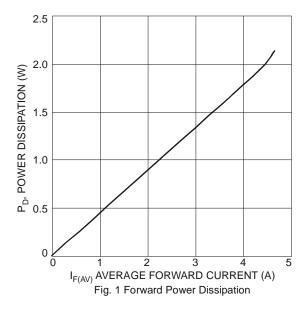
Electrical Characteristics (Per Leg) $@T_A = 25$ °C unless otherwise specified

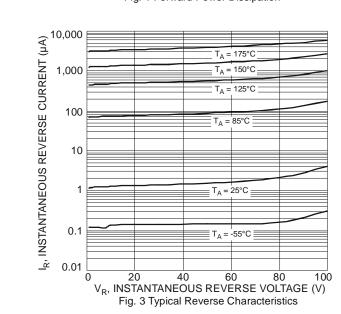
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	VF		0.77	0.84	V	I _F = 5A, T _J = 25°C
		_	0.63	0.71		I _F = 5A, T _J = 125°C
Leakage Current (Note 5)	I _R	_	_	0.2	i ma i	$V_R = 100V, T_J = 25^{\circ}C$
		_	_	25		V _R = 100V, T _J = 125°C

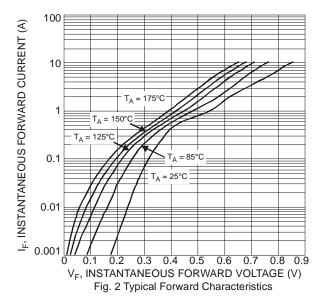
Notes:

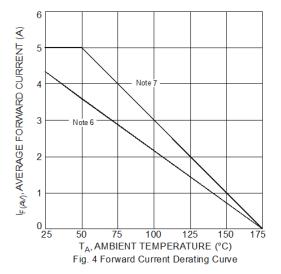
- 5. Short duration pulse test used to minimize self-heating effect
- 6. Device mounted on FR-4 substrate PCB, 1oz copper .with minimum recommended pad layout.
 7. Device mounted on Polymide substrate, 1*MRP, 2oz, copper, PCBs.









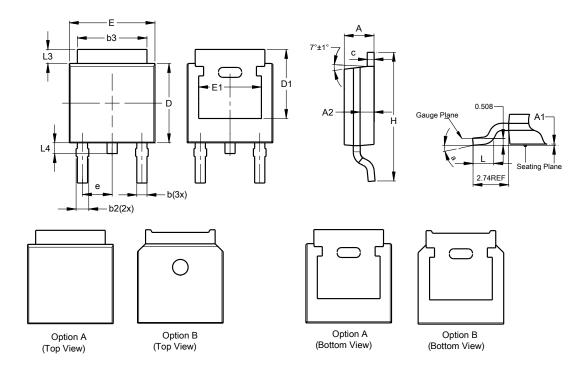




Package Outline Dimensions

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

TO252 (Standard)

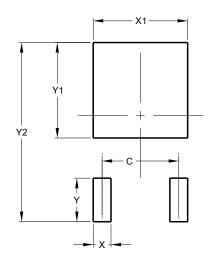


TO252 (Standard)				
Dim	Min	Max	Тур	
Α	2.19	2.39	2.29	
A 1	0.00	0.13	0.08	
A2	0.97	1.17	1.07	
b	0.64	0.88	0.783	
b2	0.76	1.14	0.95	
b3	5.21	5.46	5.33	
С	0.45	0.58	0.531	
D	6.00	6.20	6.10	
D1	5.21	-	-	
е	-	-	2.286	
Е	6.45	6.70	6.58	
E1	4.32	-	-	
Н	9.40	10.41	9.91	
L	1.40	1.78	1.59	
L3	0.88	1.27	1.08	
L4	0.60	1.02	0.83	
а	0°	10°	-	
All Dimensions in mm				

Suggested Pad Layout

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TO252 (Standard)



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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