

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

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

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _{RM}	60	V
Average Rectified Output Current	lo	10	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	140	А

Thermal Characteristics (Per Leg)

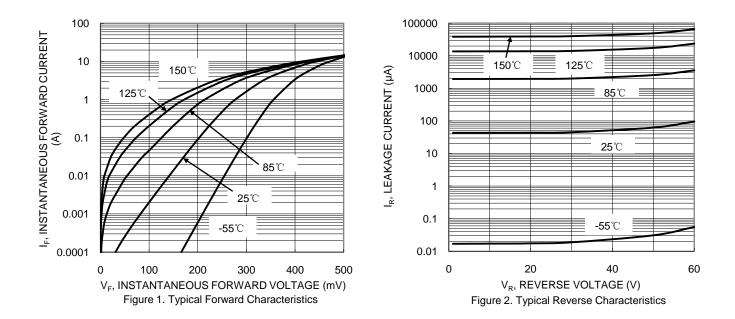
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 5)	$R_{\theta JA}$	18	°C/W
Typical Thermal Resistance Junction to Case (Note 5)	$R_{ extsf{ heta}JC}$	2	°C/W
Operating and Storage Temperature Range	T _{J,} T _{STG}	-55 to +150	°C

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

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	VF	_	0.44	0.52	V	$I_F = 10A, T_J = +25^{\circ}C$
		—	—	0.50		$I_F = 10A, T_J = +125^{\circ}C$
Leakage Current (Note 6)	1-	_	0.08	0.4	mA	V _R = 60V, T _J = +25°C
	IR	—	—	70	mA	$V_R = 60V, T_J = +125^{\circ}C$

Notes: 5. 2inch*2inch Al board, minimum recommended pad layout as shown in Diodes Incorporated's package outline PDFs, which can be found on our website at http://www.diodes.com/package-outlines.html.

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



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SBRT10U60D1

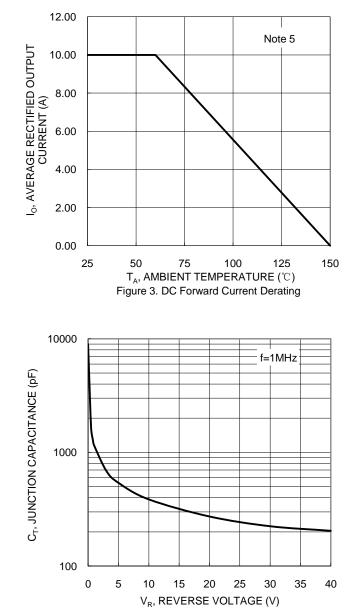
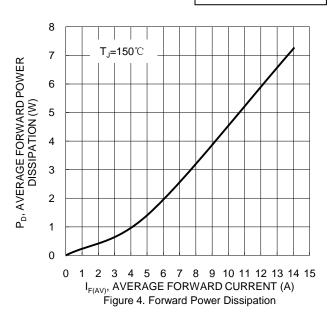


Figure 5. Typical Junction Capacitance



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Package Outline Dimensions

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

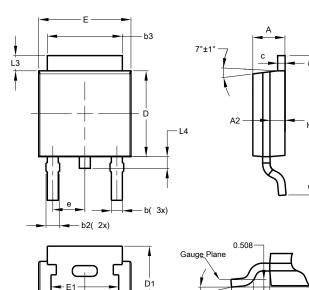
TO252 (DPAK)

Seating Plane

A1

TO252 (DPAK)

2.74REF

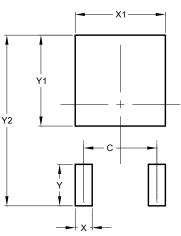


	TO252 (DPAK)				
Dim	Min	Max	Тур		
Α	2.19	2.39	2.29		
A1	0.00	0.13	0.08		
A2	0.97	1.17	1.07		
b	0.64	0.88	0.783		
b2	0.76	1.14	0.95		
b3	5.21	5.46	5.33		
С	0.45	0.58	0.531		
D	6.00	6.20	6.10		
D1	5.21	-	-		
е	-	-	2.286		
Е	6.45	6.70	6.58		
E1	4.32	-	-		
н	9.40	10.41	9.91		
L	1.40	1.78	1.59		
L3	0.88	1.27	1.08		
L4	0.64	1.02	0.83		
а	0°	10°	-		
All	All Dimensions in mm				

Suggested Pad Layout

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



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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