NEW PRODUCT

Maximum Ratings and Electrical Characteristics (@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	RABF22	RABF24	RABF26	RABF28	RABF210	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	280	420	560	700	V
Average Rectified Output Current (Note 5) @ T_C = +100°C	I_O	2.0					A
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	60					A
I^2t Rating for Fusing (1ms < t < 8.3ms)	I^2t	14.94					A^2S
Maximum Forward Voltage (Per Element) @I_F = 2.0A	V_{FM}	1.3					V
Maximum Reverse Recovery Time (Note 6)	t_{RR}	150		250	500		ns
Peak Reverse Current @T_A = +25°C At Rated DC Blocking Voltage (Note 7) @T_A = +125°C	I_R	5.0 200					μA
Typical Total Capacitance (Per Element) (Note 8)	C_T	17					ns

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Ambient (Note 5) (Per Element)	$R_{\theta JA}$	63	°C/W
Typical Thermal Resistance, Junction to Lead (Per Element)	$R_{\theta JL}$	25	°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150	°C

Notes:
5. Device mounted on aluminum substrate PC board with 1.3mm^2 solder pad.
6. Reverse Recovery Test Conditions: I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A.
7. Short duration pulse test used to minimize self-heating effect.
8. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.

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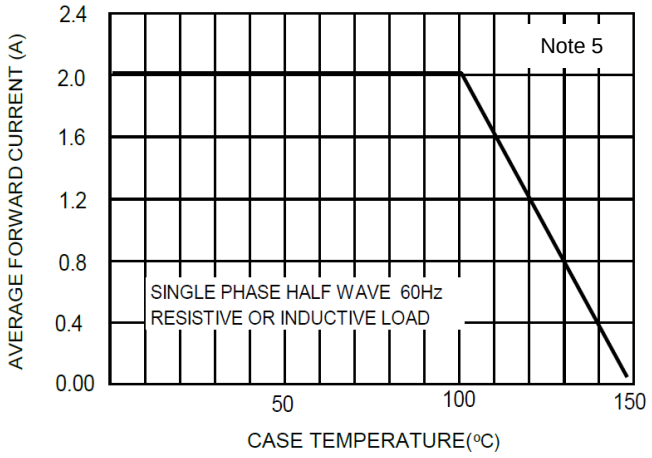

Figure1. Forward Current Derating

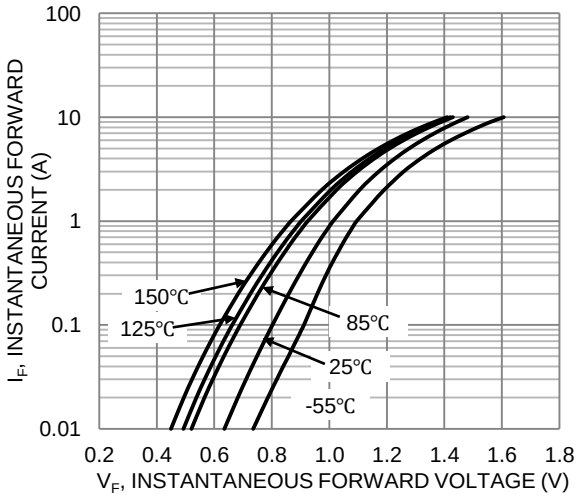

Figure 2. Typical Forward Characteristics

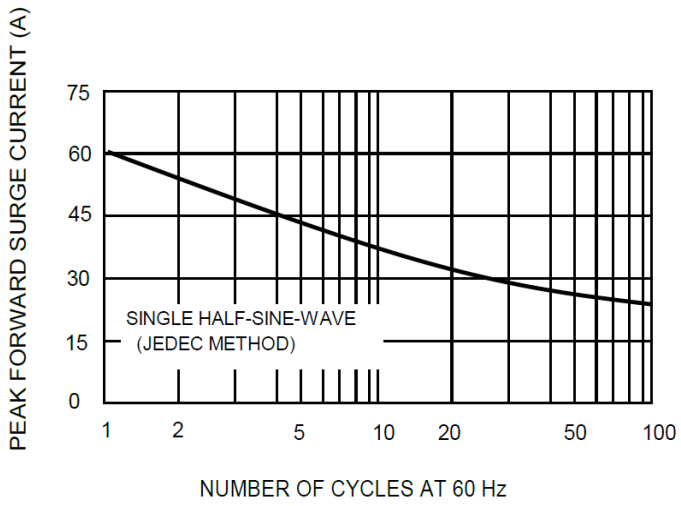

Figure 3. Maximum Non-Repetitive Forward Surge Current

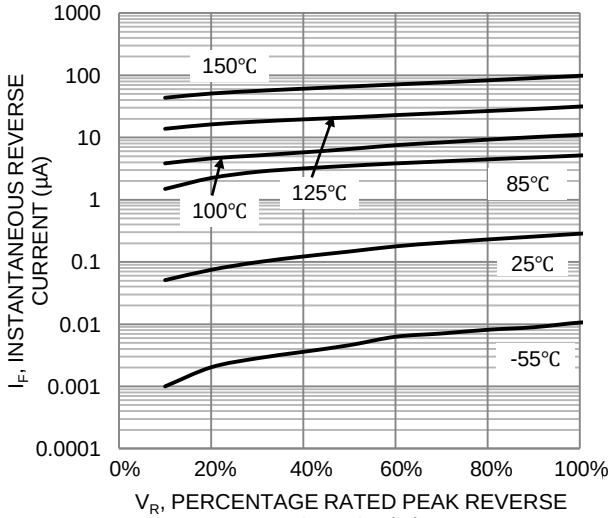

Figure 4. Typical Reverse Characteristics

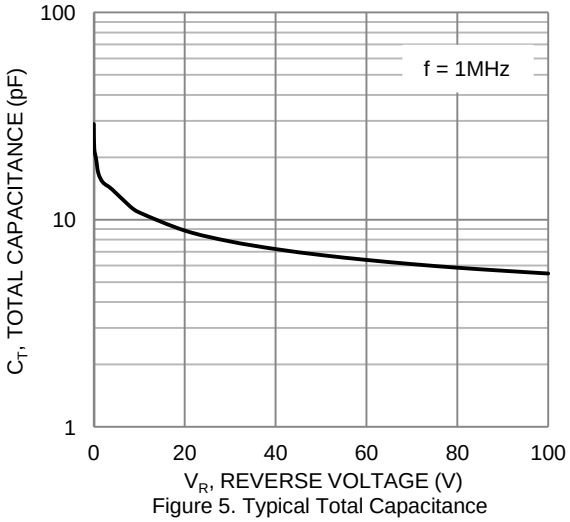

Figure 5. Typical Total Capacitance

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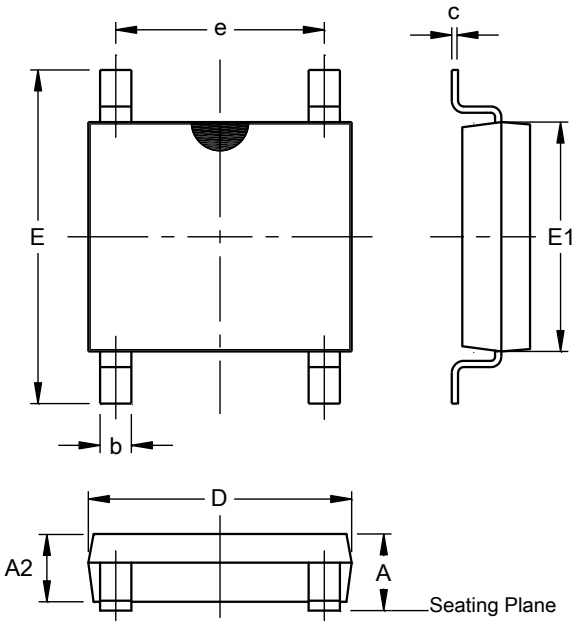
Package Outline Dimensions

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

SOPA-4 (Type B)

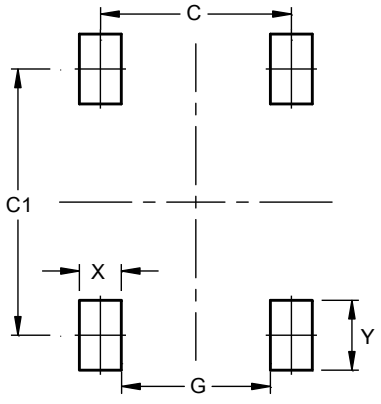


SOPA-4 (Type B)			
Dim	**Min**	**Max**	**Typ**
A	1.15	1.30	--
A2	1.00	1.25	--
b	0.50	0.70	--
c	0.15	0.25	--
D	4.80	5.30	--
E	6.00	6.80	--
E1	4.20	4.60	--
e	3.80	4.20	--
All Dimensions in mm			

Suggested Pad Layout

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

SOPA-4 (Type B)



Dimensions	Value (in mm)
C	4.10
C1	5.72
G	3.20
X	0.90
Y	1.50

NEW PRODUCT

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