

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

Characteristic	Symbol	BAS20DW	BAS21DW	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	200	250	V
Working Peak Reverse Voltage	V _{RWM}	150	200	V
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{R(RMS)}	106	141	V
Forward Continuous Current (Note 8)	I _{FM}	400		mA
Average Rectified Output Current (Note 8)	I _O	200		mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0μs	I _{FSM}	2.5		A
@ t = 1.0s		0.5		
Repetitive Peak Forward Surge Current	I _{FRM}	625		mA

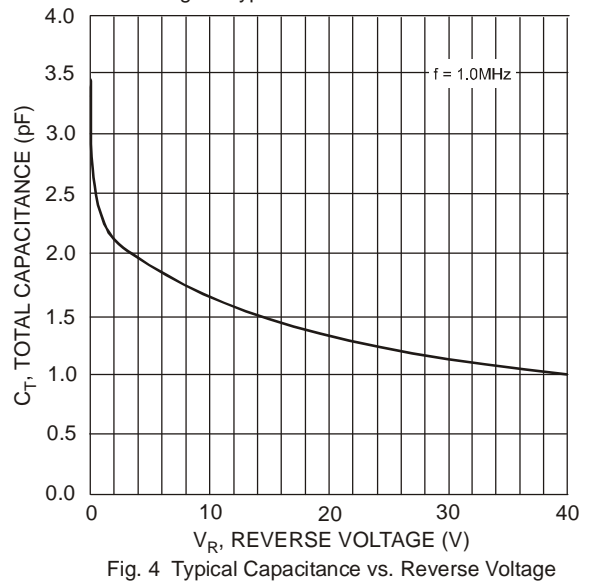
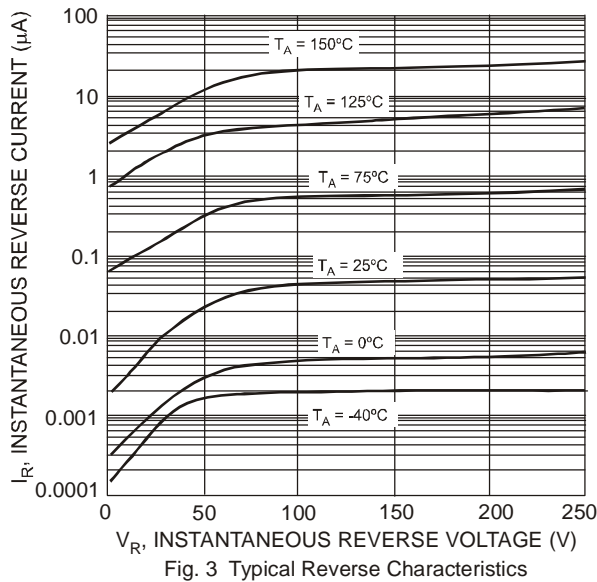
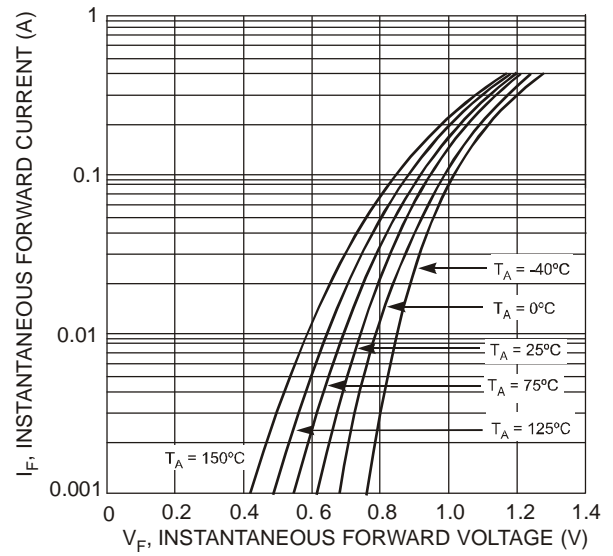
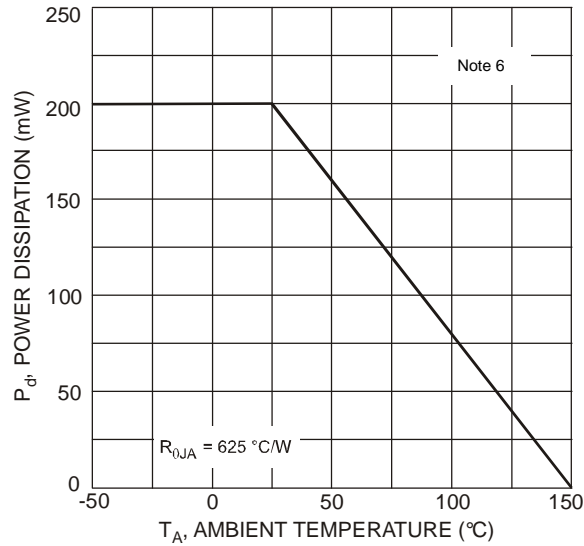
Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 6)	P _D	200	mW
Thermal Resistance Junction to Ambient Air (Note 6)	R _{θJA}	625	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

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

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 7)	V _{(BR)R}	200	—	V	I _R = 100μA
		250	—		
Forward Voltage	V _F	—	1.0	V	I _F = 100mA
			1.25		I _F = 200mA
Reverse Current @ Rated DC Blocking Voltage (Note 7)	I _R	—	100	nA	T _J = +25°C
			15	μA	T _J = +100°C
Total Capacitance	C _T	—	5.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{RR}	—	50	ns	I _F = I _R = 30mA, I _{RR} = 0.1 x I _R , R _L = 100Ω

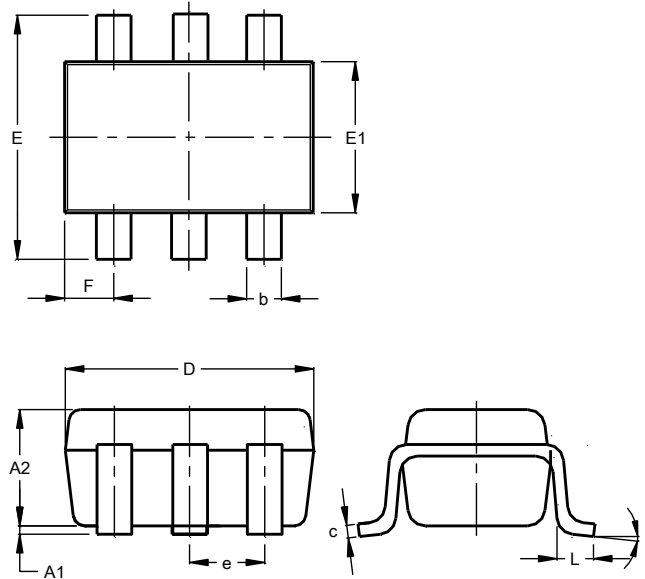
- Notes:
- Part mounted on FR-4 substrate, 2 oz Cu pad layout board with recommended pad layout, which can be found on our website at <http://www.diodes.com/package-outlines.html>.
 - Short duration pulse test used to minimize self-heating effect.
 - Double Diode Loaded in Parallel. For Single Diode or Double Diode Loaded in Series, the continuous forward current should be reduced by half.



Package Outline Dimensions

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

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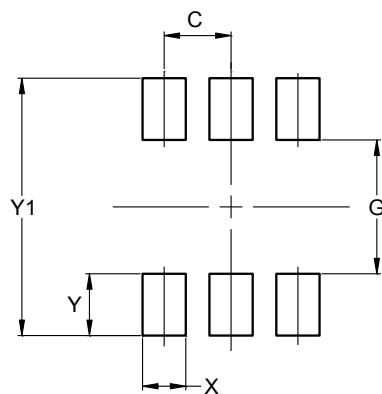


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Dim	Min	Max	Typ
A1	0.00	0.10	0.05
A2	0.90	1.00	0.95
b	0.10	0.30	0.25
c	0.10	0.22	0.11
D	1.80	2.20	2.15
E	2.00	2.20	2.10
E1	1.15	1.35	1.30
e	0.650 BSC		
F	0.40	0.45	0.425
L	0.25	0.40	0.30
a	0°	8°	--
All Dimensions in mm			

Suggested Pad Layout

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

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Dimensions	Value (in mm)
C	0.650
G	1.300
X	0.420
Y	0.600
Y1	2.500

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