

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

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

Characteristic	Symbol	B320AE	B340AE	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vrm	20	40	V
Average Rectified Output Current	lo	3		А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	80		A

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 5)	Reja	60	°C/W
Typical Thermal Resistance Junction to Case (Note 5)	Rejc	30	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150	°C

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

Characteristic		Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop		VF	_	0.45	0.50	V	IF = 3A, TJ = +25°C
Forward Voltage Drop		٧F	—	0.40	_	v	I _F = 3A, T _J = +125°C
Leakage Current (Note 6)	B320AE	1-	_		0.10	A	V _R = 20V, T _J = +25°C
	B340AE	IR	—	—	0.20	mA	V _R = 40V, T _J = +25°C
Typical Capacitance		Ст	—	140		pF	$V_R = 4.0V, f = 1MHz$

Notes: 5. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.56"*0.73" copper pad. 6. Short duration pulse test used to minimize self-heating effect.



B320AE/B340AE

125°C

100°C 85°C

25°C

60

150

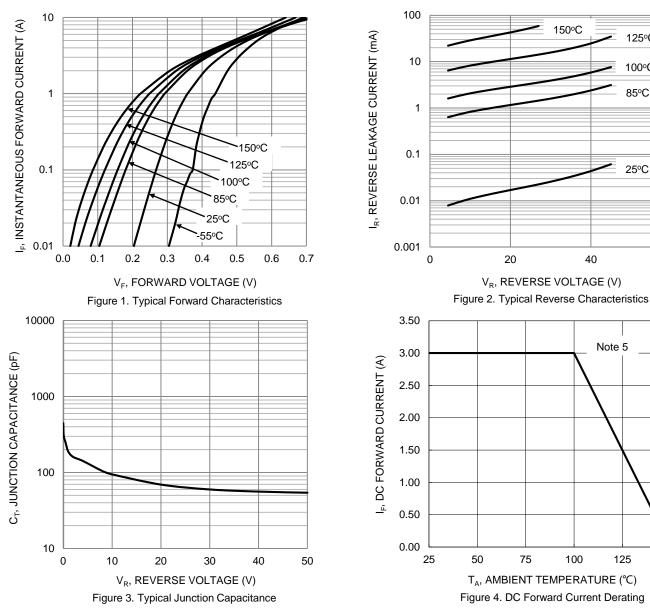
125

40

100

Note 5

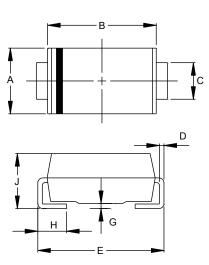
150°C





Package Outline Dimensions

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



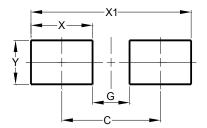
SMA				
Dim	Min	Max		
Α	2.29	2.92		
В	4.00	4.60		
С	1.27	1.63		
D	0.15	0.31		
ш	4.80	5.59		
G	0.05	0.20		
Н	0.76	1.52		
J	1.96	2.40		
All Dimensions in mm				

Suggested Pad Layout

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

SMA

SMA



Dimensions	Value (in mm)
С	4.00
G	1.50
Х	2.50
X1	6.50
Y	1.70



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