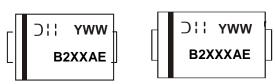


Marking Information





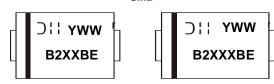
B2XXAE or B2XXXAE = Product Type Marking Code, ex: B270AE (SMA Package)

J | = Manufacturers' Code Marking

YWW = Date Code Marking

Y = Last Digit of Year (ex: 8 for 2018)

SMB



B2XXBE or B2XXXBE = Product Type Marking Code, ex: B270BE (SMB Package)

| | = Manufacturers' Code Marking

YWW = Date Code Marking

Y = Last Digit of Year (ex: 8 for 2018)

WW = Week Code (01 to 53)

Maximum Ratings (@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	B270AE B270BE	B280AE B280BE	B290AE B290BE	B2100AE B2100BE	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	80	90	100	V
Average Rectified Output Current	l ₀	2.0			Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	50			А	

WW = Week Code (01 to 53)

Thermal Characteristics

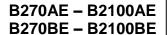
Characteristic		Symbol		Unit
Typical Thermal Resistance Junction to Ambient (Note 5)	SMA SMB	R _{θJA}	110 100	°C/W
Typical Thermal Resistance Junction to Case (Note 5)	SMA SMB	R _{θJC}	65 50	°C/W
Operating and Storage Temperature Range		T _J , T _{STG}	-65 to +150	°C

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

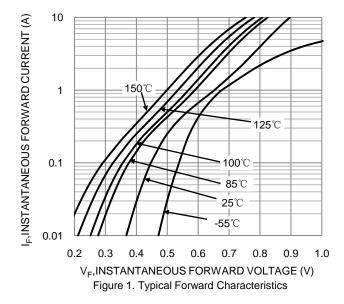
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V	_	0.74	0.79	\/	I _F = 2.0A, T _A = +25°C
Forward Voltage Drop	VF	_	0.60	_	V	I _F = 2.0A, T _A = +125°C
Lookaga Current (Note 6)	-	_	_	7	μА	@ Rated V _R , T _A = +25°C
Leakage Current (Note 6)	IR	_	0.4	_	mA	@ Rated V _R , T _A = +125°C
Typical Capacitance	Ст	_	70	_	pF	$V_R = 4V, f = 1MHz$

Notes:

- 5. Valid provided that terminals are kept at ambient temperature.
- 6. Short duration pulse test used to minimize self-heating effect.







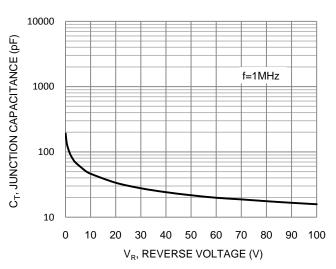


Figure 3. Typical Junction Capacitance

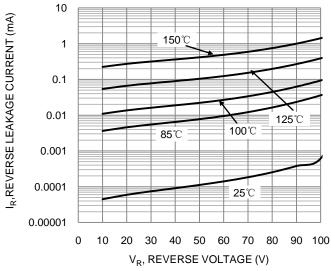
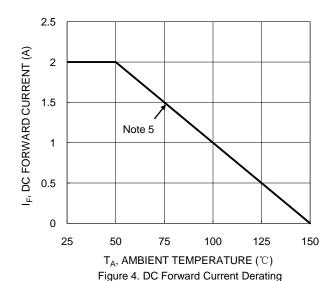


Figure 2. Typical Reverse Characteristics

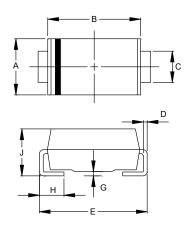


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Package Outline Dimensions

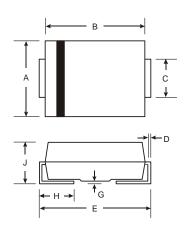
Please see http://www.diodes.com/package-outlines.html for the latest version.





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				

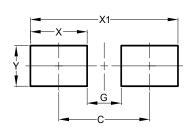
SMB



SMB				
Dim	Min	Max		
Α	3.30	3.94		
В	4.06	4.57		
С	1.96	2.21		
D	0.15	0.31		
Е	5.00	5.59		
G	0.05	0.20		
Н	0.76	1.52		
J	2.00	2.50		
All Dimensions in mm				

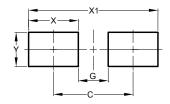
Suggested Pad Layout

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

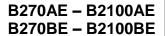


Dimensions	Value (in mm)
С	4.00
G	1.50
Х	2.50
X1	6.50
v	1.70

SMB



Dimensions	Value (in mm)
С	4.30
G	1.80
Х	2.50
X1	6.80
Y	2.30





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