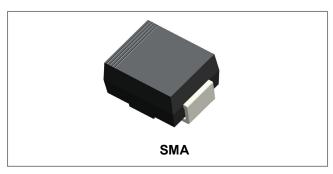






B340A SCHOTTKY RECTIFIER



Features

- Small foot print, surface moutable
- Low forward voltage drop
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Applications

- Disk Drives
- Switching power supply
- Redundant power subsystems
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Battery Charging

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	40	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _C =75°C, rectangular wave form On PC board 9mm² island	3	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	100	А

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V_{F1}	@ 3A, Pulse, T _J = 25 °C	0.45	0.50	V
-	V _{F2}	@ 3A, Pulse, T _J = 100 °C	0.41	0.45	V
Reverse Current*	I _{R1}	$@V_R = Rated V_R, Pulse, T_J = 25 °C$	0.04	0.5	mA
	I _{R2}	$@V_R = Rated V_R, Pulse, T_J = 100 °C$	4	20	mA
Junction Capacitance	Ст	$@V_R = 5V, T_C = 25 °C$ $f_{SIG} = 1MHz$	220	250	PF
Typical Series Inductance	Ls	Measured lead to lead 5 mm from package body	2.0	-	nH
Voltage Rate of Change	dv/dt	-	-	10,000	V/μs

^{*} Pulse width < 300 µs, duty cycle < 2%



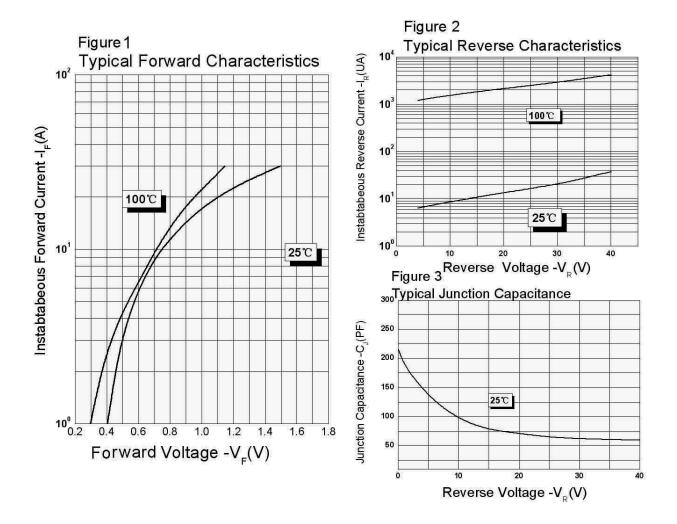




Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +125	°C
Storage Temperature	T _{stg}	-	-55 to +125	°C
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	-	80	°C/W
Approximate Weight	wt	-	0.06	g
Case Style	SMA			

Ratings and Characteristics Curves



[•] China - Germany - Korea - Singapore - United States •

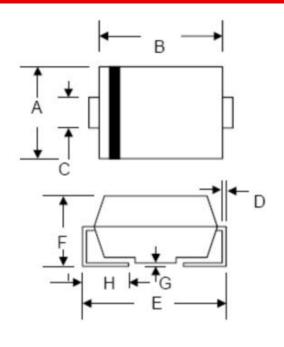
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Mechanical Dimensions SMA



SYMBOL	Millimeters		Inches	
STWIBUL	Min.	Max.	Min.	Max.
Α	2.40	2.84	0.094	0.112
В	3.99	4.75	0.157	0.187
С	1.05	1.70	0.041	0.067
D	0.15	0.51	0.006	0.020
E	4.80	5.66	0.189	0.223
F	1.90	2.95	0.075	0.116
G	0.05	0.203	0.002	0.008
Н	0.76	1.52	0.030	0.600

Ordering Information

Device	Package	Shipping	
B340A	SMA (Pb-Free)	5000pcs / reel	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram

B340A xxxxx Where XXXXX is YYWWL

B = Device Type
3 = Forward Current (3A)
40 = Reverse Voltage (40V)
A = Package Type
YY = Year

= Week

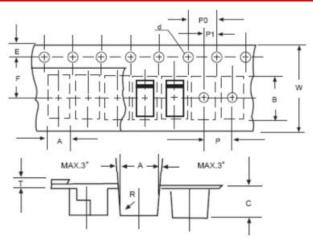
= Lot Number

Cautions: Molding resin

 $\mathsf{W}\mathsf{W}$

Epoxv resin UL:94V-0

Carrier Tape & Reel Specification SMA



SYMBOL	Millimeters		
STWIBUL	Min.	Max.	
Α	2.97	3.17	
В	5.70	5.90	
C	2.32	2.52	
d	1.40	1.60	
E	1.40	1.60	
F	5.60	5.70	
Р	3.90	4.10	
P0	3.90	4.10	
P1	1.90	2.10	
Т	0.25	0.35	
W	11.80	12.20	

- China Germany Korea Singapore United States •
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