

B320 thru B340

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE 20 to 40 Volts **FORWARD CURRENT** 3.0 Amperes

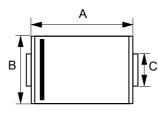
FEATURES

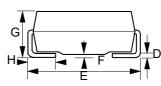
- · For surface mounted application
- · Metal-Semiconductor junction with guard ring
- Epitaxial construction
- · Very Low forward voltage drop
- · High current capability
- Qualified according to AEC-Q101 Rec C
- · For use in low voltage, high frequency inverters, free wheeling, and polarity protection application
- IEC 61000-4-2, level 4 (ESD), > 15KV (air)

MECHANICAL DATA

- · Case: Molded plastic
- · Case Material: Molding compound, UL Flammability classification 94V-0, "Halogen-free".
- · Polarity: Color band denotes cathode
- · Weight: 0.007 ounces, 0.21 grams

SMC





SMC					
DIM.	MIN.	MAX.			
Α	6.60	7.11			
В	5.59	6.22			
С	2.92	3.18			
D	0.15	0.31			
E	7.75	8.13			
F	0.05	0.20			
G	2.01	2.50			
Н	0.76	1.52			
All Dimensions in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	B320	B330	B340	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	VDC	20	30	40	V
Maximum Average Forward Rectified Current @TL=100°C	lav	3.0		А	
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	IFSM	100		Α	
Maximum Forward Voltage at 3.0A DC	VF	0.5		V	
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	ΙR	0.15 15		mA	
Typical Junction Capacitance (Note 1)	Cj	230		рF	
Typical Thermal Resistance (Note 2, 4)	R⊕JL	18		°C/W	
Typical Thermal Resistance (Note 3, 4)	R⊕JA	60		°C/W	
Operating Junction Temperature Range	Tj	-55 to +125		°C	
Storage Temperature Range	Тѕтс		-55 to +150		°C

Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC...

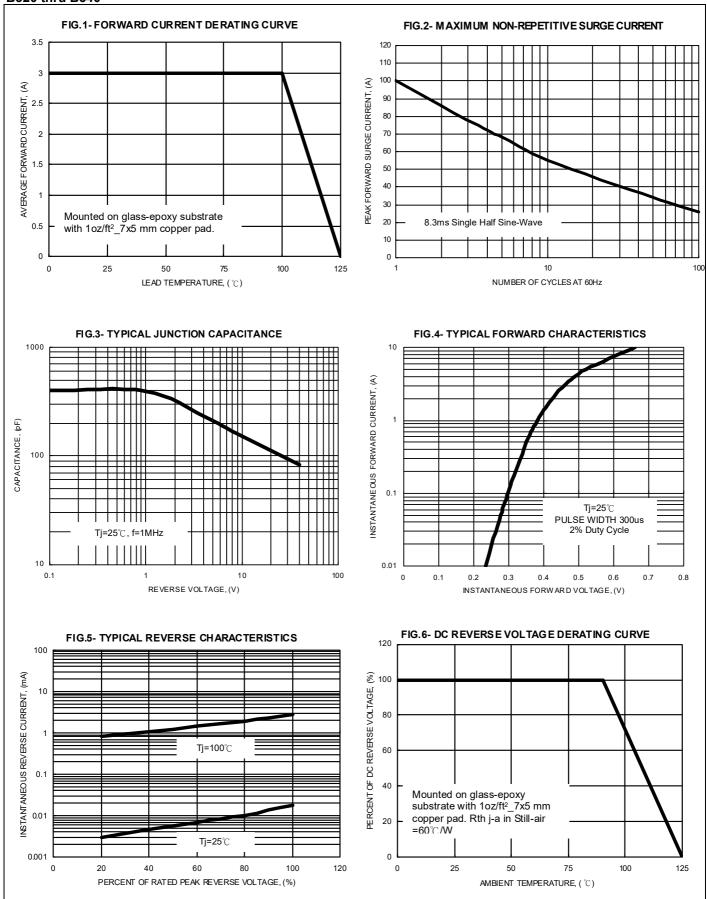
- (2) Thermal Resistance Junction to Lead
- (3) Thermal Resistance Junction to Ambient
- (4) Unit mounted on glass epoxy substrate 1oz/ft2 7x5 mm copper pad.

Please be aware that an Important Notice and Disclaimer concerning availability, disclaimers, and use in critical applications of LSC products thereto appears at the end of this Data Sheet.

REV.-6, Sep-2019, KSHC07

RATING AND CHARACTERISTIC CURVES B320 thru B340







IMPORTANT NOTICE AND DISCLAIMER

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design purchase or use.

ALL INFORMATION ARE PROVIDED AS-IS, EVEN IT HAS QUALIFIED BY THE AEC-Q101 WHICH SATISFY INDUSTRIAL APPLICATION REQUIREMENT, EXCEPT AS EXPRESSLY STATED IN THIS DATA SHEET IS APPLIED FOR AUTOMOTIVE GRADE, LSC MAKE NO WARRANTIES, REPRESENTATION OR GUARANTEE, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING, WITHOUT LIMITATION, REGARDING ANY MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE LSC TECHNOLOGY.

LSC DOES NOT ASSUME ANY LIABILITY OR COMPENSATION FOR ANY APPLICATION ASSISTANCE OR CUSTOMER PRODUCT DESIGN, AND MAKE NO WARRANTY OR ACCEPT ANY LIABILITY WITH PRODUCTS, WHICH ARE PURCHASED OR USED FOR ANY UNINTENDED OR UNAUTHORIZED APPLICATION.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.