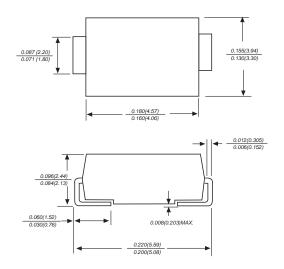
# SK52B THRU SK510B

# SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 5.0 Amperes

#### DO-214AA



Dimensions in inches and (millimeters)

### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

## **MECHANICAL DATA**

Case: JEDEC DO-214AA molded plastic body Terminals: leads solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.003 ounce, 0.093 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

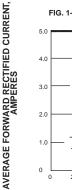
|   | SYMBOLS | SK52B       | SK53B       | SK54B | SK55B | SK56B | SK58B  | SK510B | UNITS |
|---|---------|-------------|-------------|-------|-------|-------|--------|--------|-------|
| Maximum repetitive peak reverse voltage       | VRRM    | 20          | 30          | 40    | 50    | 60    | 80     | 100    | V     |
| Maximum RMS voltage                           | VRMS    | 14          | 21          | 28    | 35    | 42    | 56     | 70     | V     |
| Maximum DC blocking voltage                   | VDC     | 20          | 30          | 40    | 50    | 60    | 80     | 100    | V     |
| Maximum average forward rectified current     | I(AV)   | 5.0         |             |       |       |       |        |        | А     |
| at TL(see fig.1)                              | I(AV)   |             |             |       |       |       |        |        |       |
| Peak forward surge current                    |         |             |             |       |       |       |        |        |       |
| 8.3ms single half sine-wave superimposed on   | IFSM    |             | 100.0       |       |       |       |        |        | Α     |
| rated load                                    |         |             |             |       |       |       |        |        |       |
| Maximum instantaneous forward voltage at 5.0A | VF      |             | 0.55 0.     |       |       | 70    | 0.85   |        | V     |
| Maximum DC reverse current Ta=25℃             |         | 0.5 0.1     |             |       |       |       |        | mA     |       |
| at rated DC blocking voltage Ta=100°C         | lR      | 20 10       |             |       |       |       | 10     | ]      |       |
| Typical junction capacitance (NOTE 1)         | C¹      |             | 200         |       |       |       |        |        | pF    |
| Typical thermal resistance (NOTE 2)           | RθJA    |             | 68.0        |       |       |       |        |        | °C/W  |
| Operating junction temperature range          | TJ,     |             | -55 to +125 |       |       |       | -55 to | o +150 | °C    |
| Storage temperature range                     | Тѕтс    | -55 to +150 |             |       |       |       | °C     |        |       |

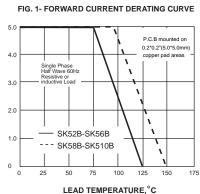
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

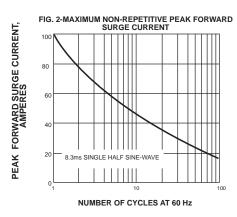
2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

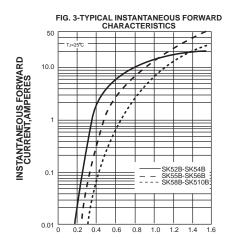


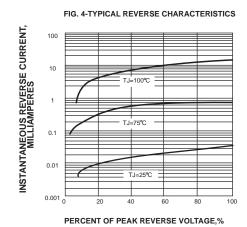
## **RATINGS AND CHARACTERISTIC CURVES SK52B THRU SK510B**

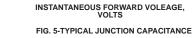


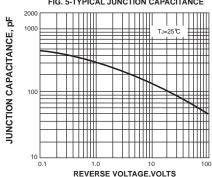


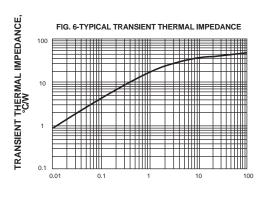












t,PULSE DURATION,sec.



# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by Starsea manufacturer:

Other Similar products are found below:

MA4E2039 MA4E2508M-1112 MBR10100CT-BP MBR1545CT MMBD301M3T5G GS1JE-TP RB160M-50TR BAS 3010S-02LRH E6327
BAT 54-02LRH E6327 NSR05F40QNXT5G NSVR05F40NXT5G NTE555 JANS1N6640 SB07-03C-TB-H SBAT54CWT1G SK310-T
SK33A-TP SK34B-TP SS3003CH-TL-E PDS3100Q-7 GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G
BAS 70-02L E6327 DMJ3940-000 SB007-03C-TB-E SK32A-TP SK33B-TP SK35A-TP SK38B-LTP SK38B-TP NTE505
NTSB30U100CT-1G VS-6CWQ10FNHM3 CRG04(T5L,TEMQ) ACDBA1100LR-HF ACDBA1200-HF ACDBA140-HF ACDBA2100-HF
ACDBA240-HF ACDBA3100-HF CDBQC0530L-HF BAT54-13-F ACDBA340-HF ACDBA260LR-HF ACDBA1100-HF MA4E2502L1246 10BQ060-M3/5BT 10BQ040-M3/5BT