

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**SK515 - SK520**



**DO-214AB (SMC)  
Surface Mount  
Plastic Package**

Colour Band denotes polarity.

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

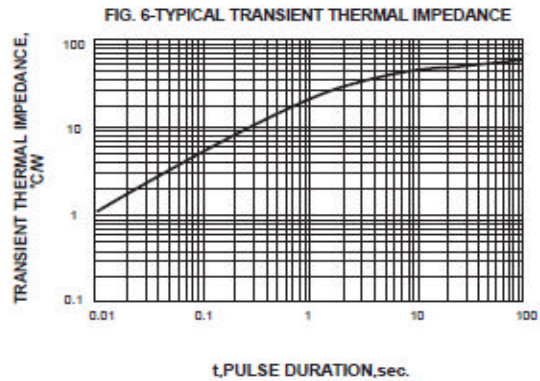
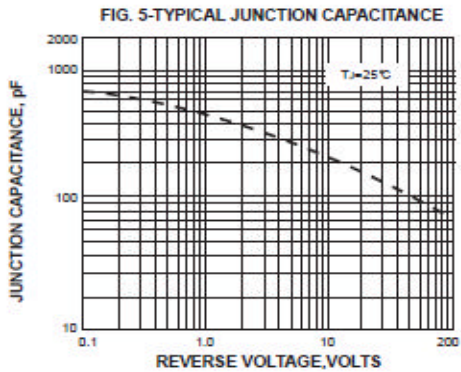
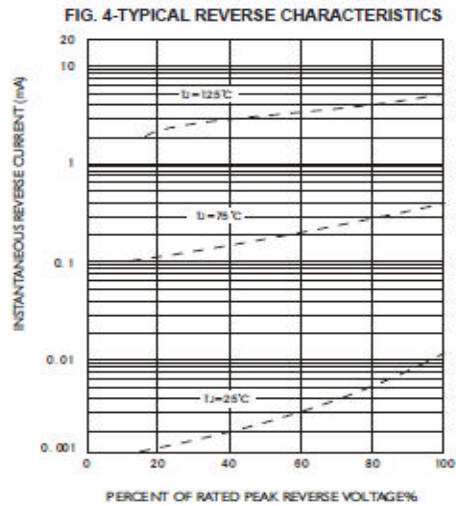
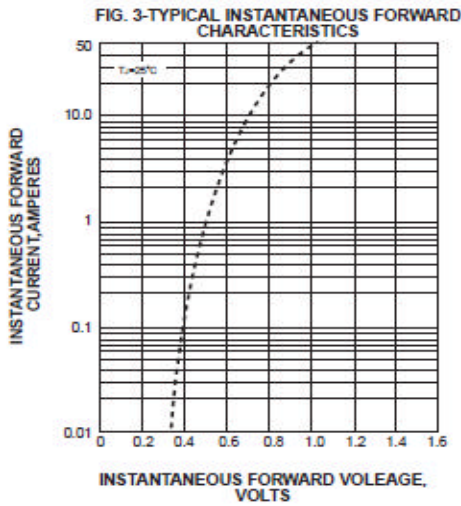
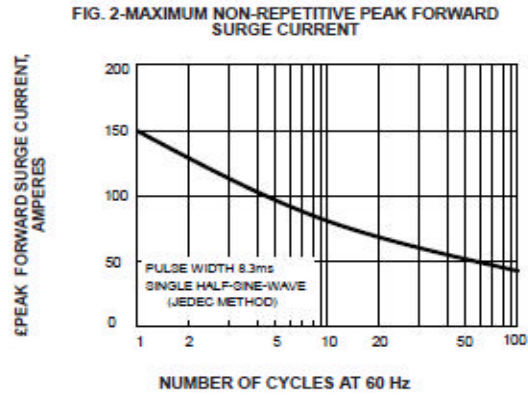
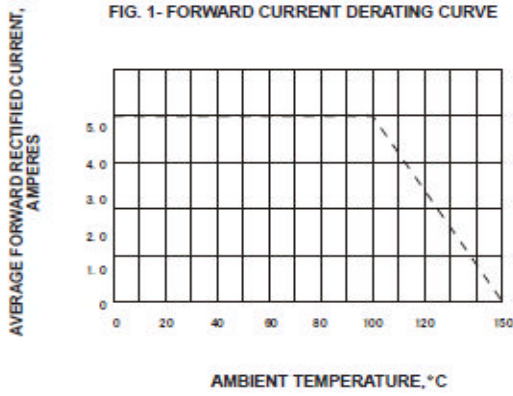
Rating at 25°C Ambient Temperature unless specified otherwise.

Single phase half-wave 60Hz, Resistive or Inductive Load, for Capacitive Load current derate 20%

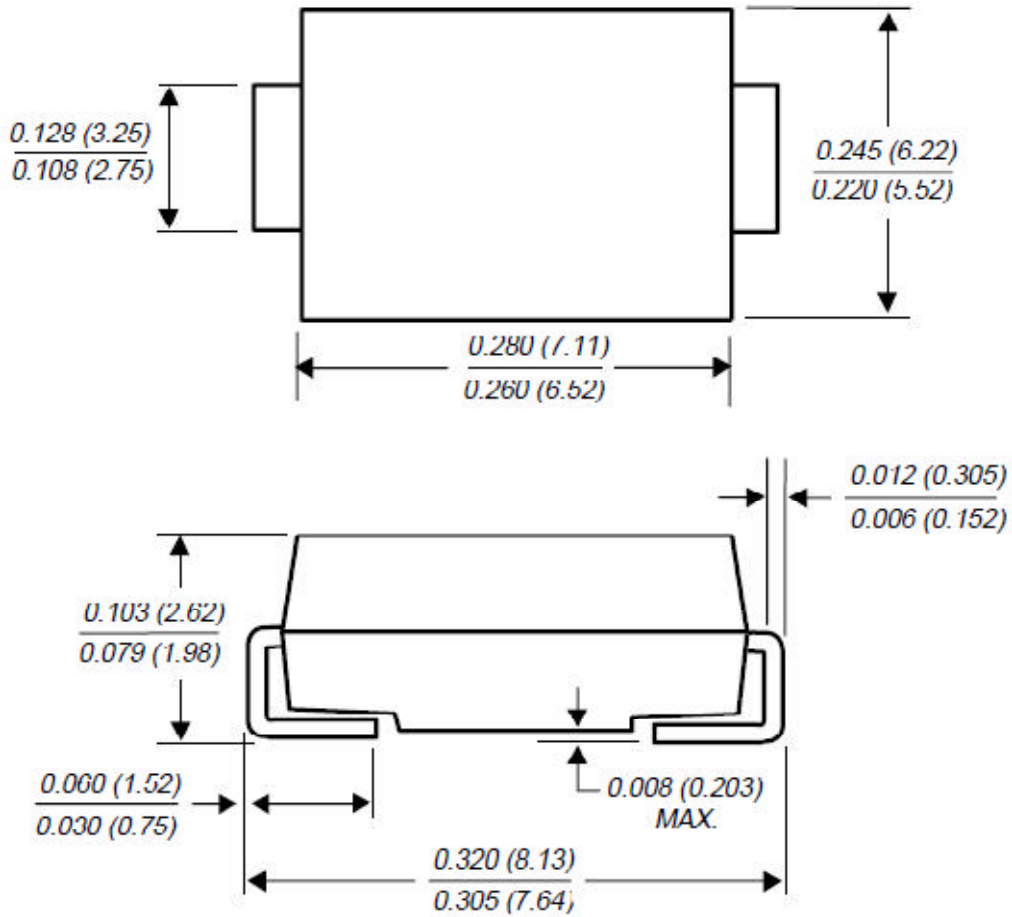
| DESCRIPTION   | SYMBOL        | SK515             | SK520 | UNIT |
|---|---------------|-------------------|-------|------|
| Maximum Peak Repetitive Reverse Voltage   | $V_{RRM}$     | 150               | 200   | V    |
| Maximum RMS Voltage   | $V_{RMS}$     | 105               | 140   | V    |
| Maximum DC Blocking Voltage   | $V_{DC}$      | 150               | 200   | V    |
| Maximum Average Forward Rectified Current   | $I_{(AV)}$    | 5                 |       | A    |
| Peak Forward Surge Current<br>8.3ms single half sine-wave superimposed on<br>rated load | $I_{FSM}$     | 150               |       | A    |
| Maximum Instantaneous Forward Voltage<br>$I_F=3.0A$                                     | $V_F$         | 0.95              |       | V    |
| Maximum DC Reverse Current<br>at Rated DC Blocking Voltage                              | $I_R$         | $T_a=25^\circ C$  | 1     | mA   |
|   |               | $T_a=100^\circ C$ | 50    | mA   |
| Typical Junction Capacitance (Note : 1)   | $C_J$         | 300               |       | pF   |
| Thermal Resistance Junction to Ambient  | $R_{th(j-a)}$ | 10                |       | °C/W |
| Operating Junction Temperature Range  | $T_j$         | -55 to +150       |       | °C   |
| Storage Temperature Range   | $T_{stg}$     | -55 to +150       |       | °C   |

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

### CHARACTERISTICS CURVES



### DO-214AB (SMC) PACKAGE DIMENSIONS

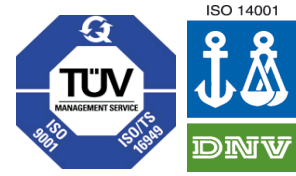


*Dimensions in inches and (millimeters)*



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## Customer Notes

### Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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