

**SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER**

**SK12 - S110**



**DO-214AA (SMB)  
Surface Mount Package**

Polarity : Colour band denotes cathode end

For Use in Low Voltage High Frequency Inverters, Free Wheeling and Polarity Protection Applications

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless specified otherwise. Single phase, half wave Resistive or Inductive Load. ccc

DESCRIPTION	SYMBOL	SK12	SK13	SK14	SK15	SK16	SK18	SK19	S110	UNIT
Maximum Peak Repetitive Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	64	71	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Length at $T_L=75^\circ C$	$I_{(AV)}$	1.0								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	30								A
Maximum Instantaneous Forward Voltage at $I_F=1.0A$	$*V_F$	0.50			0.70		0.85			V
Maximum DC Reverse Current $T_a=25^\circ C$ at Rated DC Blocking Voltage $T_a=100^\circ C$	$*I_R$	0.5								mA
		20								mA
Thermal Resistance Junction to Ambient	** $R_{th(j-a)}$	TYP90								$^\circ C/W$
Thermal Resistance Junction to Lead	** $R_{th(j-L)}$	TYP35								$^\circ C/W$
Operating Junction Temperature Range	$T_j$	- 55 to +125								$^\circ C$
Storage Temperature Range	$T_{stg}$	- 55 to +150								$^\circ C$

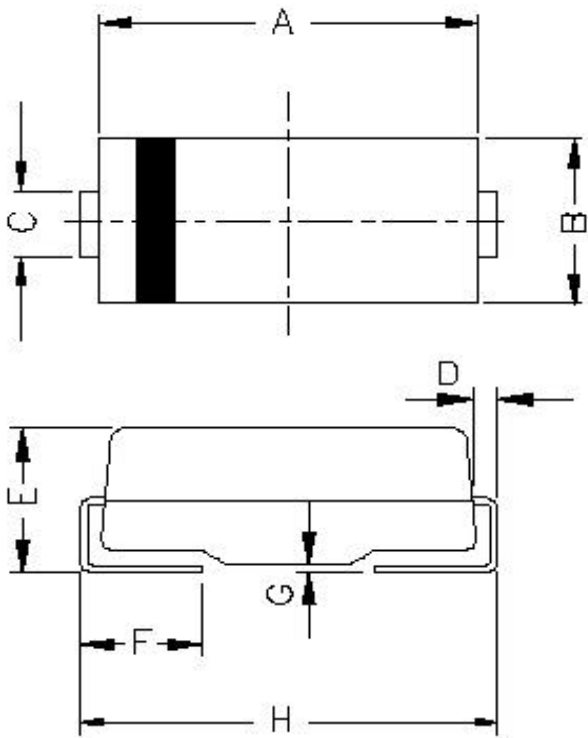
\* Pulse Width=300ms, 1% Duty Cycle.

\*\* Mounted on PCB with 0.2" x 0.2" (5.0 x 5.0 mm) Copper Pad Area

SK12\_S110Rev290405E

# SK12 - S110

## DO-214AA (SMB) Surface Mount Package



DIM	MIN.	MAX.
A	4.06	4.57
B	3.30	3.94
C	1.96	2.11
D	0.152	0.305
E	2.13	2.44
F	0.76	1.52
G	0.102	0.203
H	5.21	5.59

DIMENSIONS ARE IN mm

Packing:— 3K Per Reel

### **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).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



CDIL is a registered Trademark of  
Continental Device India Limited

C-120 Naraina Industrial Area, New Delhi 110 028, India.

Telephone + 91-11-2579 6150, 5141 1112 Fax + 91-11-2579 5290,5141 1119

email@cdil.com www.cdilsemi.com