

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

SK52 - S510



DO-214AB (SMC)
Surface Mount Package

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless specified otherwise. Resistive or Inductive Load.

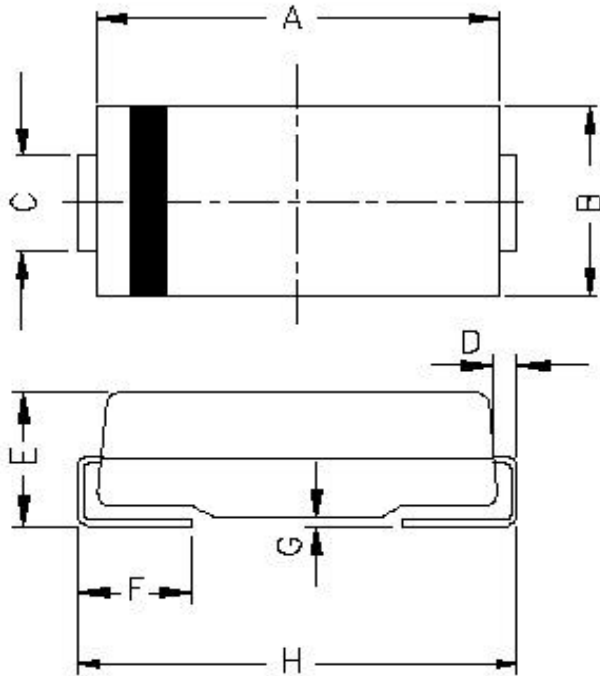
DESCRIPTION	SYMBOL	SK52	SK53	SK54	SK55	SK56	SK58	SK59	S510	UNIT
Maximum Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	64	71	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current Lead Length at $T_L=75^\circ\text{C}$	$I_{(AV)}$	5.0								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	100.0								A
Maximum Instantaneous Forward Voltage $I_F=5.0\text{A}$	$*V_F$	0.50			0.70		0.85			V
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ Rated DC Blocking Voltage $T_a=100^\circ\text{C}$	$*I_R$	0.5				20				mA mA
Thermal Resistance Junction to Ambient	** $R_{th(j-a)}$	TYP55								$^\circ\text{C/W}$
Thermal Resistance Junction to Lead	** $R_{th(j-L)}$	TYP17								$^\circ\text{C/W}$
Operating Junction Temperature Range	T_j	- 55 to +125								$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to +150								$^\circ\text{C}$

* Pulse Test With $PW=300\text{ms}$, 1% Duty Cycle.

** Mounted on PCB with 0.55" x 0.55" (14 x 14mm) Copper Pad Area

SK52_S510Rec290405E

PACKAGE DO-214AB (SMC)



DIM	MIN.	MAX.
A	6.60	7.11
B	5.59	6.22
C	2.75	3.25
D	0.152	0.305
E	2.00	2.62
F	0.76	1.27
G	0.051	0.203
H	7.75	8.13

DIMENSIONS ARE IN mm

PACKING:- 1.8K / REEL(7" 178mm)
PACKING:- 7.5K / REEL(13" 330mm)

Disclaimer

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