SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

SK32 - SK36

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 @ 25ºC Ambient Temperature unless specified otherwise. Resistive or Inductive Load

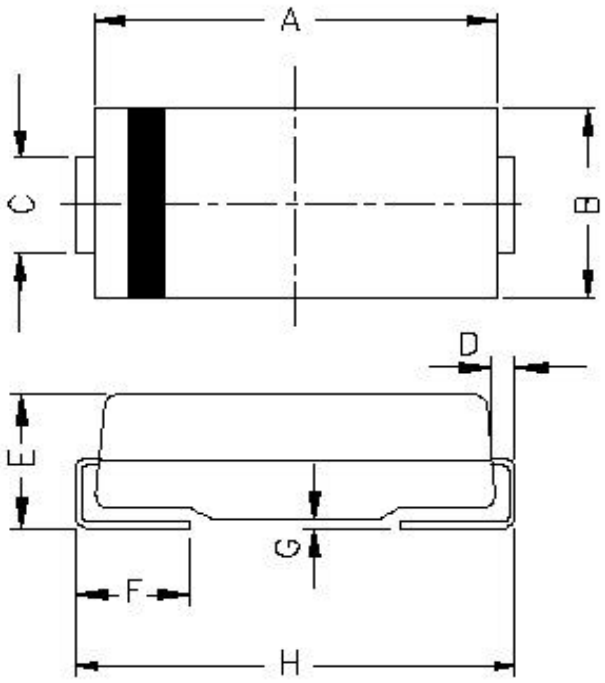
DESCRIPTION	SYMBOL	SK32	SK33	SK34	SK35	SK36	UNIT
Maximum Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current Lead Length @ T_L=75°C	**$I_{(AV)}$	3.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	80					A
Maximum Instantaneous Forward Voltage @ I_F=3.0A	*V_F	0.55			0.75		V
Maximum DC Reverse Current T_a=25°C	*I_R	1.5					mA
@ Rated DC Blocking Voltage T_a=100°C		20			10		mA
Thermal Resistance Junction to Ambient	**$R_{th\ (j-a)}$	TYP55					ºC/W
Thermal Resistance Junction to Lead	**$R_{th\ (J-L)}$	TYP17					ºC/W
Operating Junction Temperature Range	T_j	- 65 to +125			- 65 to +150		ºC
Storage Temperature Range	T_{stg}	- 65 to +150					ºC

*** Pulse Test With PW=300ms, 1% Duty Cycle.**

**** Mounted on P.C.B with "0.55 x 0.55" (14 x 14) Copper Pads Areas**

SK32_SK36Rec200105E

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)

Component Disposal Instructions

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.

2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Customer Notes

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