

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

SS32 - S300



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

Polarity : Colour band denotes cathode end

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	SS32	SS33	SS34	SS35	SS36	SS38	SS39	S300	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 $T_L=75^\circ\text{C}$	$I_{(AV)}$	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 at $I_F=3.0\text{A}$	$*V_F$	0.50		0.70		0.85			V	
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ at 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								$^\circ\text{C/W}$
	** $R_{th(j-a)}$	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								$^\circ\text{C}$

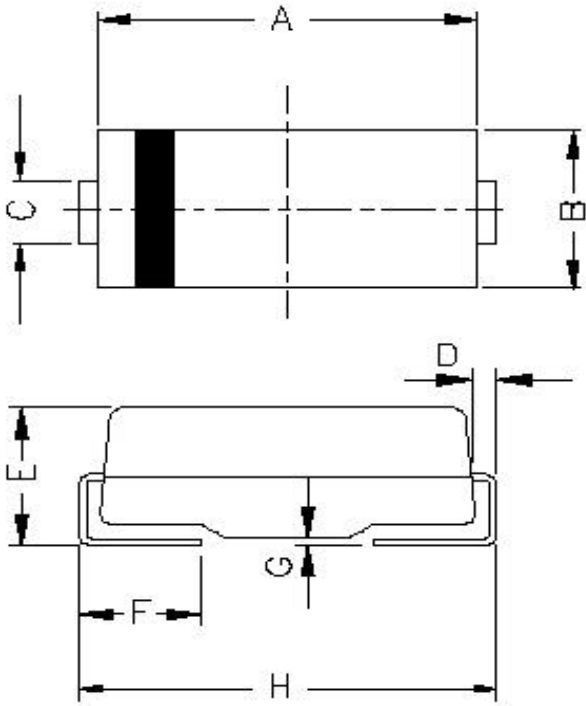
* Pulse Test With $PW=300\text{ms}$, 1% Duty Cycle.

** Mounted on PCB with 0.30" x 0.30" (8.0 x 8.0 mm) Copper Pad Area

SS32_S300Rev290405E

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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

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