

## 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 <sub>RRM</sub>	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	64	71	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at T <sub>L</sub> =75°C	I <sub>(AV)</sub>	3.0								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	80								A
Maximum Instantaneous Forward Voltage at I <sub>F</sub> =3.0A	*V <sub>F</sub>	0.50			0.70		0.85			V
Maximum DC Reverse Current    T <sub>a</sub> =25°C at Rated DC Blocking Voltage    T <sub>a</sub> =100°C	*I <sub>R</sub>	0.5 20								mA mA
Thermal Resistance Junction to Ambient	**R <sub>th (j-a)</sub>	TYP55								°C/W
	**R <sub>th (j-a)</sub>	TYP17								°C/W
Operating Junction Temperature Range	T <sub>j</sub>	- 55 to +125								°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to +150								°C

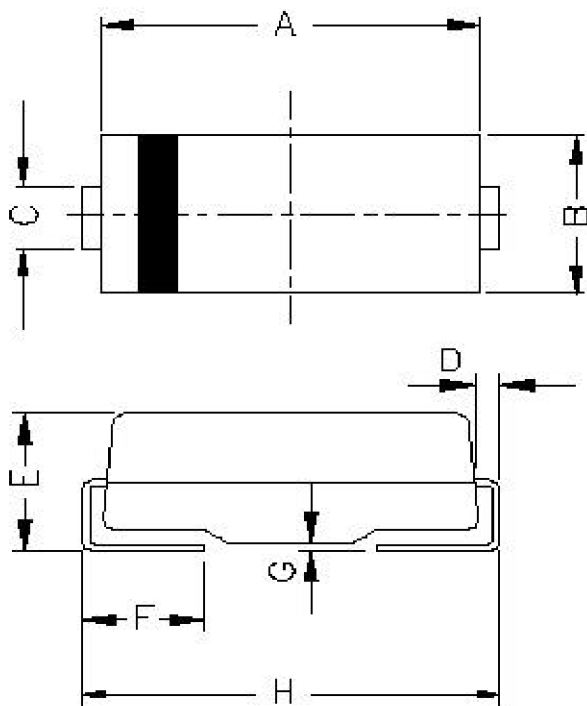
\* Pulse Test With  $PW=300\mu\text{s}$ , 1% Duty Cycle.

\*\* 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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