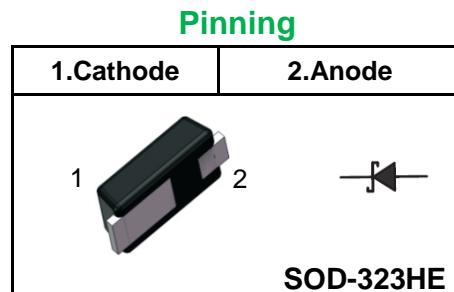


**SURFACE MOUNT SCHOTTKY RECTIFIERS**
**Reverse Voltage - 30V**
**Forward Current - 1.0 A**
**FEATURES**

- ◆ High current rectifier Schottky diodes
- ◆ Low voltage, low inductance
- ◆ For detection and step-up-conversion
- ◆ Leadfree in comply with EU RoHS 2011/65/EU directives


**MECHANICAL DATA**

- ◆ Case: SOD-323HE
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 5.4mg / 0.00019oz

<b>Marking Code</b>	
<b>SSU13S</b>	<b>SU3</b>

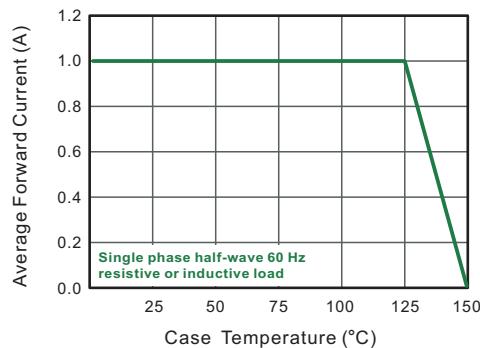
**Maximum Ratings (TA = 25 °C unless otherwise noted)**

Parameter	Symbols	SSU13S	Units
Maximum Repetitive Peak Reverse Voltage	<b>V<sub>RRM</sub></b>	30	<b>V</b>
Forward Current	<b>I<sub>F(AV)</sub></b>	1.0	<b>A</b>
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load	<b>I<sub>FSM</sub></b>	20	<b>A</b>
Operating junction temperature range	<b>T<sub>j</sub></b>	150	<b>°C</b>
Storage temperature range	<b>T<sub>stg</sub></b>	- 55 to +150	<b>°C</b>

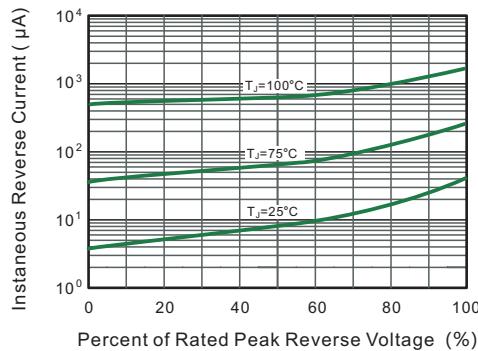
**Electrical Characteristics (TA = 25 °C unless otherwise noted)**

Parameter	Test Conditions	Symbols	SSU13S	Units
Minimum Breakdown voltage	T <sub>a</sub> = 25°C, I <sub>R</sub> =10uA	<b>V<sub>BR</sub></b>	30	<b>V</b>
Maximum forward voltage	I <sub>F</sub> =0.1A, T <sub>a</sub> =25°C I <sub>F</sub> =0.7A, T <sub>a</sub> =25°C I <sub>F</sub> =1A, T <sub>a</sub> =25°C	<b>V<sub>F</sub></b>	0.25(typ) 0.36(typ) 0.38(typ)	<b>V</b>
Peak Reverse Current VR=5.0V VR=30V	T <sub>a</sub> = 25°C	<b>I<sub>R</sub></b>	10(typ) 60(max)	<b>uA</b>
Typical junction capacitance	V <sub>R</sub> =10 V, 1 MHz	<b>C<sub>t</sub></b>	200	<b>pF</b>

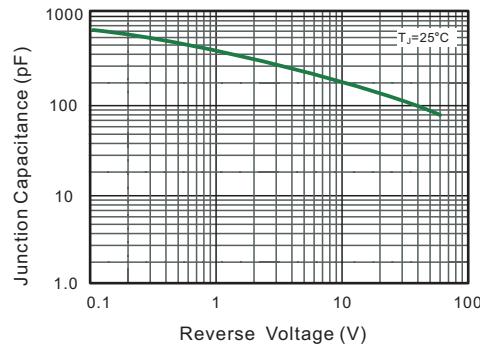
**Fig.1 Forward Current Derating Curve**



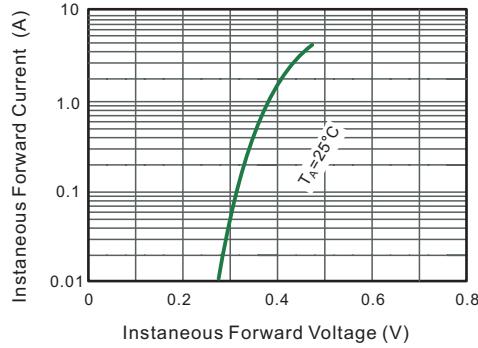
**Fig.2 Typical Reverse Characteristics**



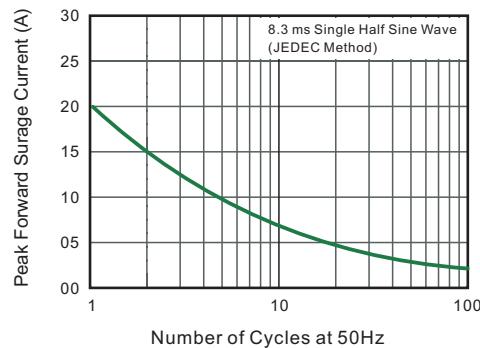
**Fig.3 Typical Junction Capacitance**



**Fig.4 Typical Forward Characteristic**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**

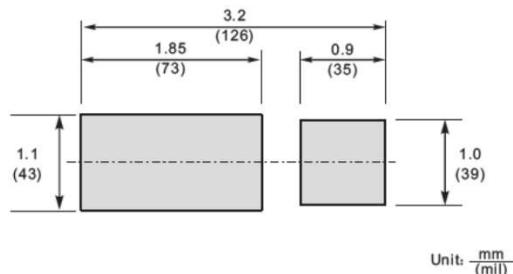


**Ordering information**

Package	Packing Description	Packing Quantity
SOD-323HE	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

**Package Dimensions**
**SOD-323HE**

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.57	0.77	22	30
b	0.45	0.75	18	30
B	0.65	0.95	26	37
C	0.10	0.20	4	8
D	1.25	1.45	49	57
E	2.1	2.3	83	91
HE	2.3	2.7	91	106
g	1.1	1.55	43	61
L	0.4	0.8	16	31
∠	12°			

**The recommended mounting pad size**


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