

**SURFACE MOUNTSCHOTTKY RECTIFIERS**

**Reverse Voltage - 40V**

**Forward Current - 2.0 A**

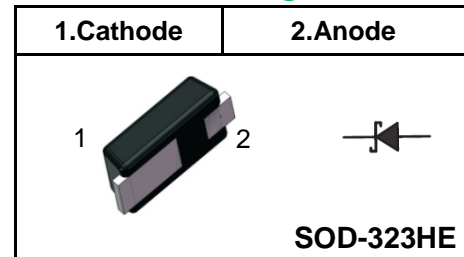
**FEATURES**

- ◆Metal silicon junction, majority carrier conduction
- ◆For surface mounted applications
- ◆Low power loss, high efficiency
- ◆For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

**MECHANICAL DATA**

- ◆Case:SOD-323HE
- ◆Terminals: Solderable per MIL-STD-750, Method2026
- ◆Approx. Weight: 5.4mg /0.00019oz

**Pinning**



**Marking Code**

<b>SSU24S</b>	<b>24</b>
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**Absolute Maximum Ratings and Electrical characteristics**

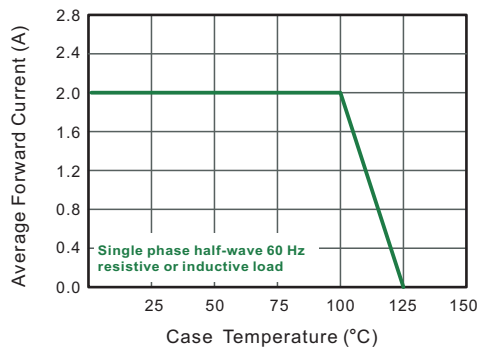
Ratings at 25 °C ambient temperature unless otherwise specified.Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	SSU24S	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Maximum RMS voltage	$V_{RMS}$	28	V
Maximum DC Blocking Voltage	$V_{DC}$	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0	A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	25	A
Max Instantaneous Forward Voltage at 1 A at 2 A	$V_F$	0.39 (Typ)0.47(Max) 0.44 (Typ)0.53(Max)	V
Maximum DC Reverse Current at Rated DC Reverse Voltage $T_a = 25\text{ }^{\circ}\text{C}$ $T_a = 100\text{ }^{\circ}\text{C}$	$I_R$	0.3 15	mA
Typical Junction Capacitance <sup>(1)</sup>	$C_j$	330	pF
Typical Thermal Resistance <sup>(2)</sup>	$R_{\theta JA}$	130	°C/W
Operating Junction Temperature Range	$T_j$	-55 ~ +125	°C
Storage Temperature Range	$T_{stg}$	-55 ~ +150	°C

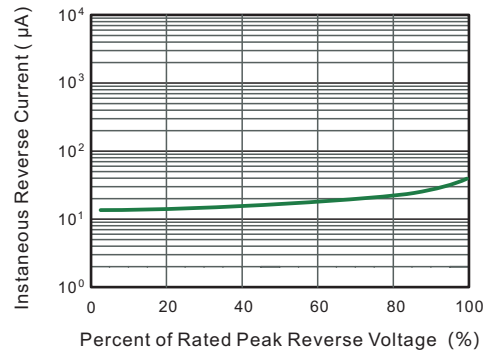
(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) P.C.B. mounted with 3.81\*3.81cm copper pad areas.

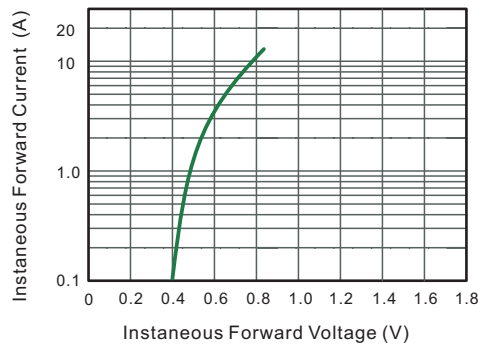
**Fig.1 Forward Current Derating Curve**



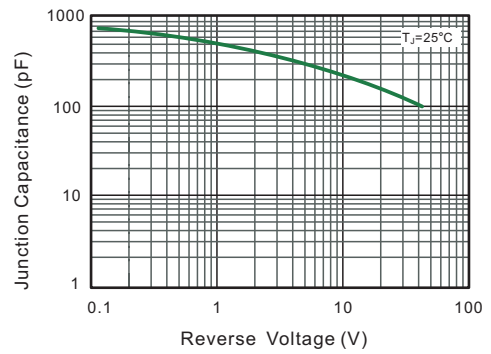
**Fig.2 Typical Reverse Characteristics**



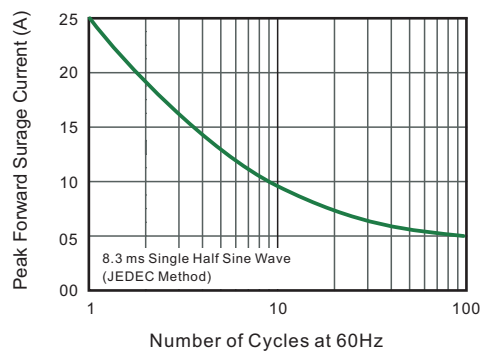
**Fig.3 Typical Forward Characteristic**



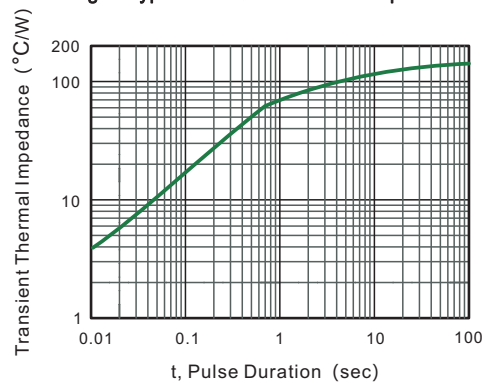
**Fig.4 Typical Junction Capacitance**



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



**Fig.6- Typical Transient Thermal Impedance**



Ordering information

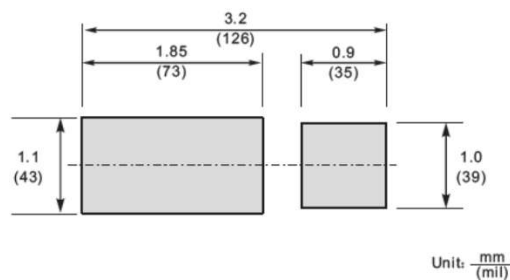
Package	Packing Description	Packing Quantity
SOD-323HE	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

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



## Disclaimer

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