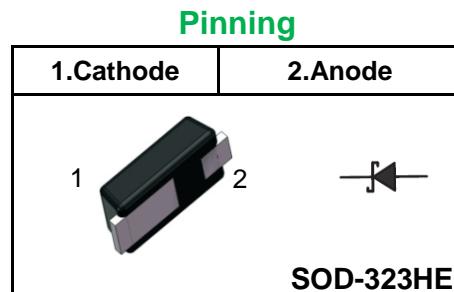


**SURFACE MOUNTSCHOTTKY RECTIFIERS**
**Reverse Voltage - 40V**
**Forward Current - 2.0 A**
**FEATURES**

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

<b>Marking Code</b>	
<b>SSU24S</b>	<b>24</b>

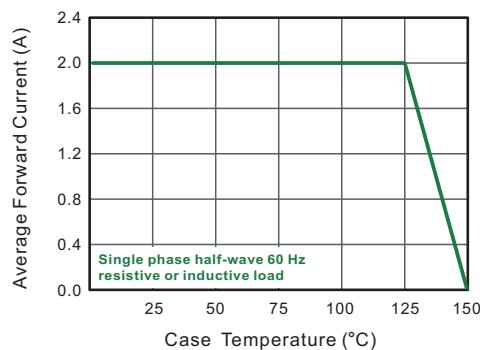
**Maximum Ratings (TA = 25 °C unless otherwise noted)**

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	$I_{FSM}$	30	A
Thermal Resistance, Junction to Ambient	$R_{thJA}$	95	°C/W
Operating junction temperature range	$T_j$	150	°C
Storage temperature range	$T_{stg}$	- 55 to +150	°C

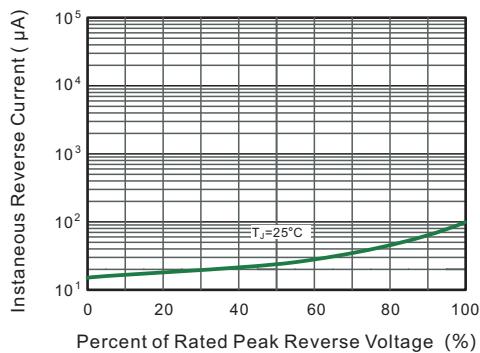
**Electrical Characteristics (TA = 25 °C unless otherwise noted)**

Parameter	Test Conditions	Symbols	SSU24S	Units
Minimum Breakdown voltage	TA = 25°C, IR=0.3mA	$V_{BR}$	40	V
Maximum forward voltage	IF=0.01A, Ta=25°C IF=0.1A, Ta=25°C IF=1A, Ta=25°C IF=2A, Ta=25°C	$V_F$	0.22(typ) 0.30(typ) 0.042(typ) 0.48(typ)	V
Peak Reverse Current	TA = 25°C	$I_R$	0.3	mA
Typical junction capacitance	$V_R=4.0$ V, 1 MHz	$C_t$	300	pF

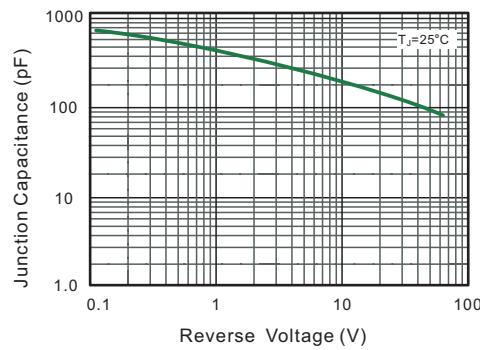
**Fig.1 Forward Current Derating Curve**



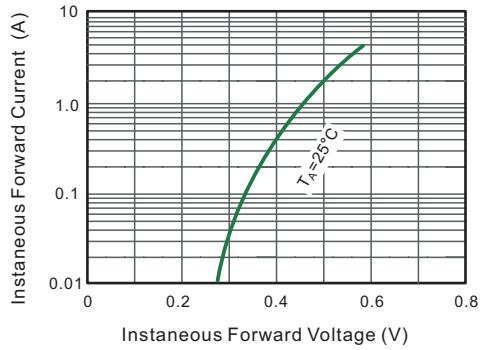
**Fig.2 Typical Reverse Characteristics**



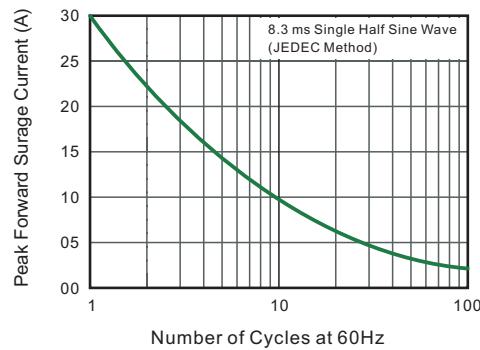
**Fig.3 Typical Junction Capacitance**



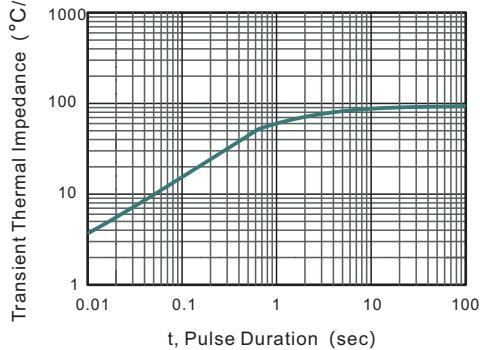
**Fig.4 Typical Forward Characteristic**



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



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

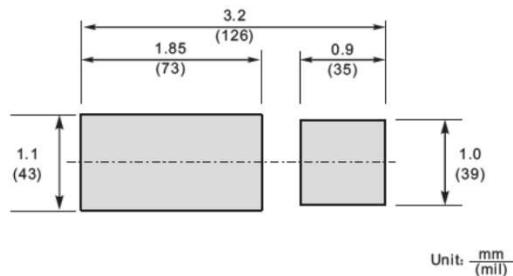


**Ordering information**

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**


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