

### **Maximum Ratings and Thermal Characteristics** ( $T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	60	V
Maximum Rms Voltage	V <sub>RMS</sub>	42	V
Maximum Dc Blocking Voltage	V <sub>DC</sub>	60	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	1	А
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load per diode	I <sub>FSM</sub>	22	А
Typical Junction Capacitance	0	25	~ <b>F</b>
Measured at 1 MHz And Applied VR = 4V	CJ	35	pF
	${\sf R}_{\theta JA}{}^{(1)}$	300	
Typical Thermal Resistance	$R_{ extsf{ heta}JA}^{(2)}$	220	°C/W
	$R_{ extsf{ heta}JL}^{(2)}$	50	
Operating Junction Temperature Range	TJ	-40~150	°C
Storage Temperature Range	T <sub>STG</sub>	-40~150	°C





## SS1060HEWS-AU

Electrical Characteristics (T <sub>A</sub> = 25 C unless otherwise noted)	<b>Electrical</b>	Characteristics	$(T_A = 25^{\circ}C \text{ unless})$	otherwise noted)
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PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F</sub>	$I_F = 0.1 \text{ A}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	0.43	V
		$I_F = 0.7 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	-	0.58	
		$I_{\rm F} = 1 \text{ A}, \text{ T}_{\rm J} = 25 ^{\circ}\text{C}$	-	-	0.68	
		I <sub>F</sub> = 0.1 A, T <sub>J</sub> = 125 °C	-	0.24	-	
		I <sub>F</sub> = 0.7 A, T <sub>J</sub> = 125 °C	-	0.48	-	
		$I_F = 1 \text{ A}, \text{ T}_J = 125 ^{\circ}\text{C}$	-	0.54	-	
Reverse Current		$V_{R} = 5 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	0.3	-	uA
	$I_R^{(3)}$	$V_R = 60 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	100	
		$V_{R} = 60 \text{ V}, \text{ T}_{J} = 125 ^{\circ}\text{C}$	-	1.8	-	mA

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 2. Mounted on a FR4 PCB, single-sided copper, with 15 mm x 50 mm copper pad area
- 3. Short duration pulse test used to minimize self-heating effect

 1.2
 1.2

 0.8
 0.6

 0.4
 0.4

SS1060HEWS-AU

PANJ

SEMI CONDUCTOR

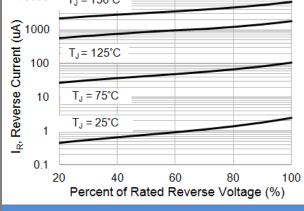
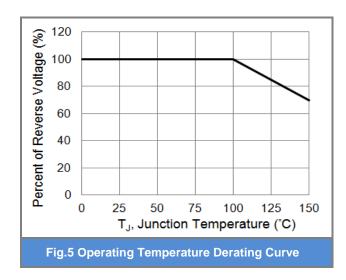
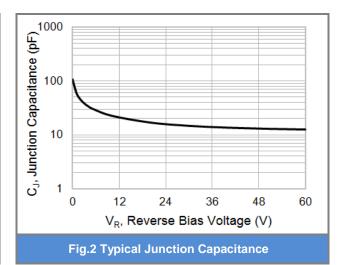
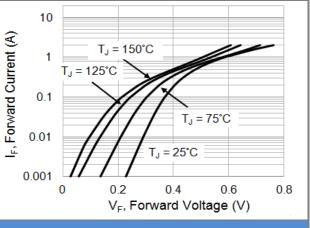


Fig.3 Typical Reverse Characteristics







**Fig.4 Typical Forward Characteristics** 





# SS1060HEWS-AU

#### Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS1060HEWS-AU_R1_000A1	SOD-323HE	5K / 7" Reel	EW	Halogen free

#### Packaging Information & Mounting Pad Layout

