

#### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum Rms Voltage	V <sub>RMS</sub>	28	V
Maximum Dc Blocking Voltage	VDC	40	V
Maximum Average Forward Current	IF(AV)	0.35	А
Peak Forward Surge Current: 10 uS Single Half Sine- Wave Superimposed On Rated Load	IFSM	2	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	С	10	pF
Typical Thermal Resistance	R <sub>0JA</sub> <sup>(1)</sup>	650	°C/W
Operating Junction Temperature Range	TJ	-55~125	٥C
Storage Temperature Range	Tstg	-55~125	٥C



# SD103AWS-AU

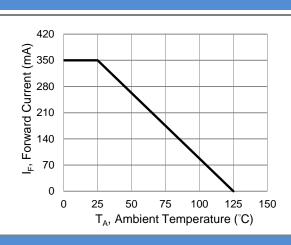
#### **Electrical Characteristics** (T<sub>A</sub> = 25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I <sub>F</sub> = 20 mA, T <sub>J</sub> = 25 °C	-	0.34	-	V
		I <sub>F</sub> = 200 mA, T <sub>J</sub> = 25 °C	-	-	0.6	
		I <sub>F</sub> = 20 mA, T <sub>J</sub> = 100 °C	-	0.26	-	
		I <sub>F</sub> = 200 mA,T <sub>J</sub> = 100 °C	-	0.53	-	
Reverse Current	<sub>R</sub> (2)	V <sub>R</sub> = 32 V, T <sub>J</sub> = 25 °C	-	0.4	-	uA
		$V_R = 40 V, T_J = 25 °C$	-	-	5	
		$V_R = 40 V, T_J = 100 \circ C$	-	97	-	

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 2. Short duration pulse test used to minimize self-heating effect

### SD103AWS-AU



**TYPICAL CHARACTERISTIC CURVES** 

Fig.1 Forward Current Derating Curve

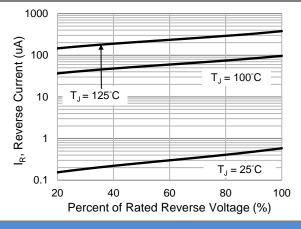
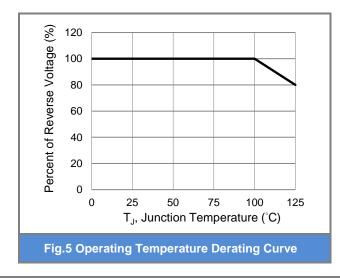


Fig.3 Typical Reverse Characteristics



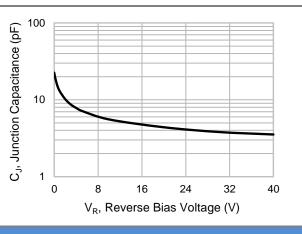
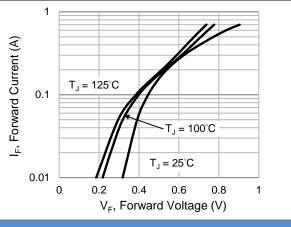


Fig.2 Typical Junction Capacitance



**Fig.4 Typical Forward Characteristics** 

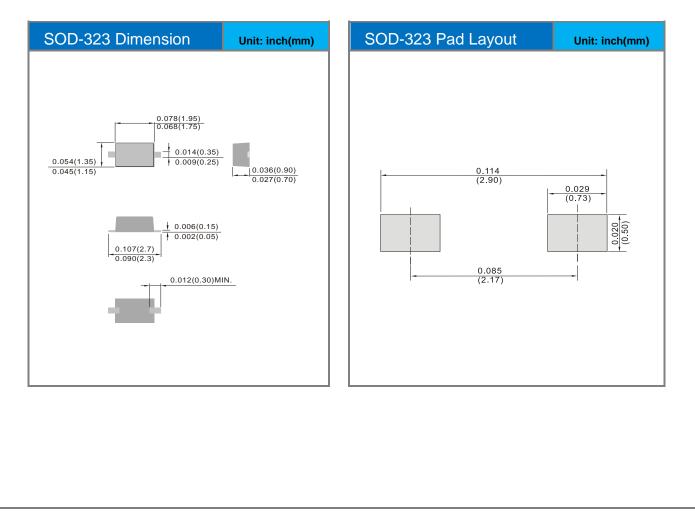


### SD103AWS-AU

#### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking	
SD103AWS-AU	SOD-323	5K / 7" Reel	S6	

### Packaging Information & Mounting Pad Layout





## SD103AWS-AU

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