

## Schottky Barrier Diode

### General description

Silicon Diode in a SOD-882 Plastic Package.

### SOD-882 Package

#### FEATURES

- Low Forward Voltage Drop
- Very Small SMD Package
- Low Voltage Rectification
- RoHS Compliant
- Green EMC



#### Device Marking: 4A



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

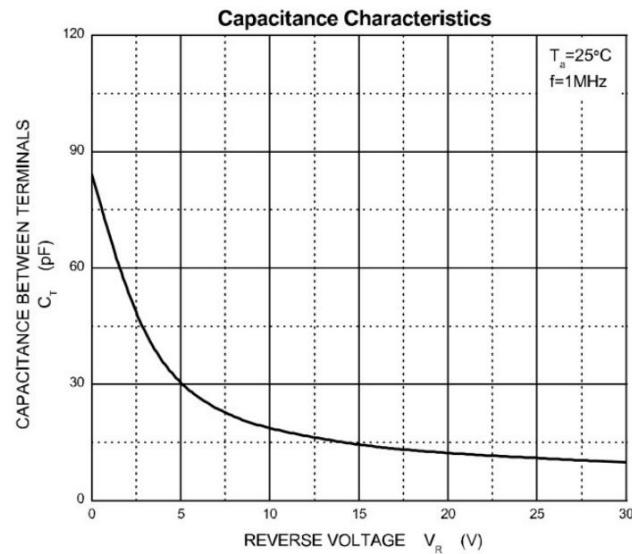
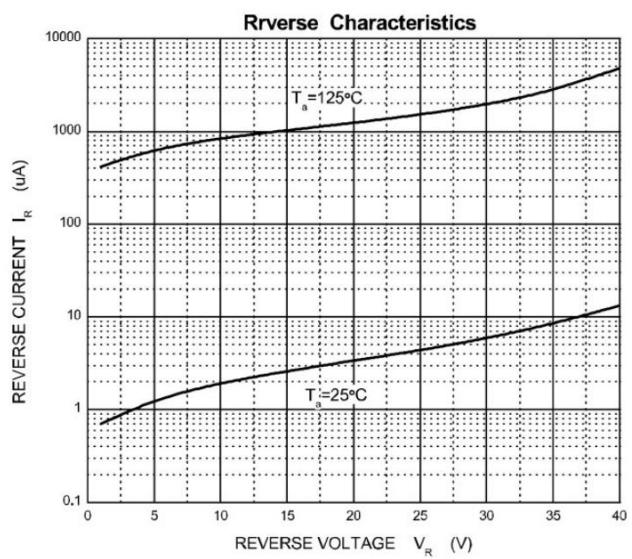
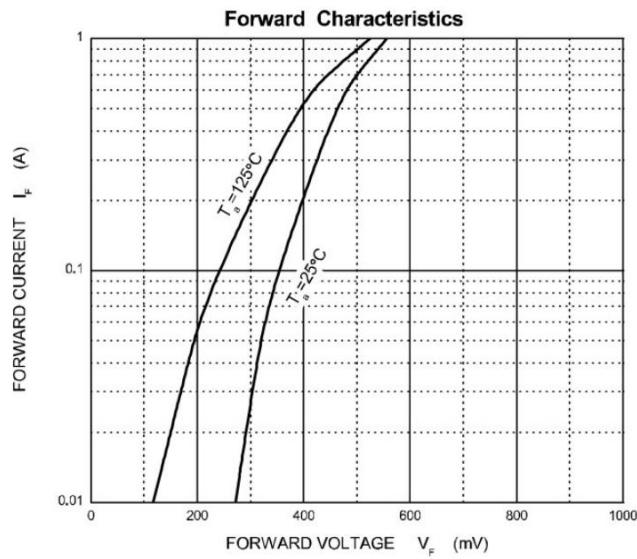
Parameter	Symbol	Value	Unit
DC reverse voltage	V <sub>R</sub>	40	V
Mean rectifying current	I <sub>o</sub>	1	A
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I <sub>FSM</sub>	7	A
Power Dissipation	P <sub>D</sub>	0.3	W
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	250	°C/W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>STG</sub>	-55 ~ +150	°C

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

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V <sub>BR</sub>	I <sub>R</sub> = 1mA	40			V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 40V		15	40	μA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 0.5A		0.45	0.50	V
		I <sub>F</sub> = 1A		0.50	0.65	V

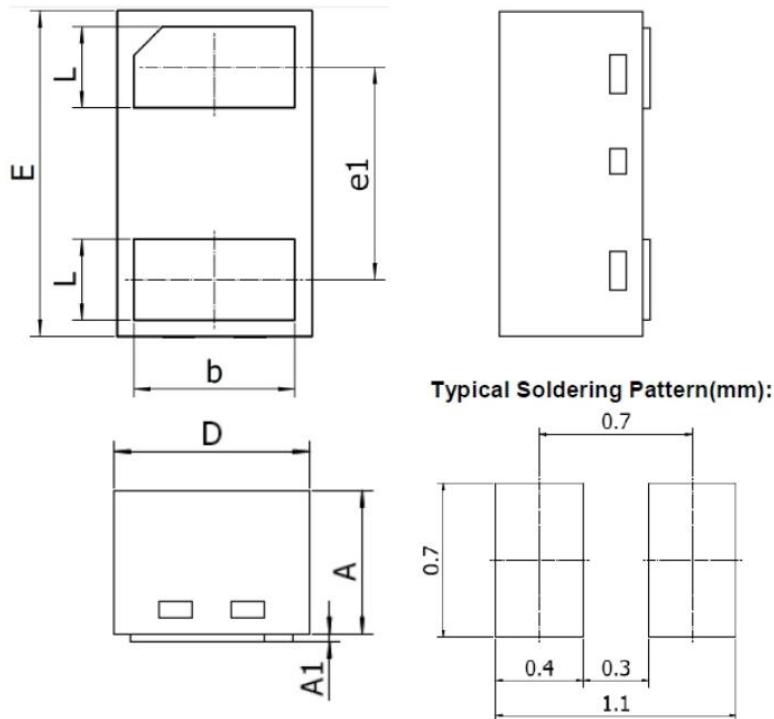
# DS1040S8

## Typical Characteristics



# DS1040S8

## SOD-882 Package Outline



DIM	MILLIMETERS	
	MIN	MAX
<b>A</b>	<b>0.35</b>	<b>0.50</b>
<b>A1</b>	--	<b>0.05</b>
<b>b</b>	<b>0.45</b>	<b>0.55</b>
<b>D</b>	<b>0.55</b>	<b>0.65</b>
<b>E</b>	<b>0.95</b>	<b>1.05</b>
<b>e1</b>	Typ.0.65	
<b>L</b>	<b>0.20</b>	<b>0.30</b>

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