CUS08F30,H3F

Schottky Barrier Rectifiers

FEATURES

- Low Forward Voltage Drop
- Very Small SMD Package

APPLICATIONS

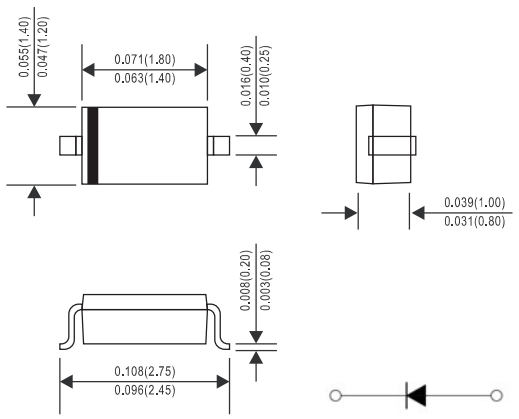
- Low Voltage Rectification
- High Efficiency DC/DC Conversion
- Switch Mode Power Supply
- Inverse Polarity Protection
- Low Power Consumption Applications

MARKING: SH



Package outline

SOD-323



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter		Value	Unit
V_{RRM}	Peak Repetitive Reverse Voltage		40	V
V_{RWM}	Working Peak Reverse Voltage			
$V_{R(RMS)}$	RMS Reverse Voltage		28	V
I_F	Continuous Forward Current		2	A
I_{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms		9	A
P_D	Power Dissipation	Note1	250	mW
		Note2	480	
$R_{\Theta JA}$	Thermal Resistance from Junction to Ambient	Note1	400	℃/W
		Note2	208	
T_j	Operating Junction Temperature Range		-40 ~ +125	℃
T_{stg}	Storage Temperature Range		-55 ~ +150	℃

1:Device mounted on an FR4 PCB, single-sided copper, tin-plated and standard footprint.

2.Device mounted on an FR4 PCB with copper pad 10 x 10 mm.

ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I_R=1mA	40			V
Reverse current	I_R	V_R=30V			50	μA
		V_R=40V			100	
Forward voltage	V_F*	I_F=1A		0.41	0.45	V
		I_F=2A		0.50	0.55	
Total capacitance	C_{tot}	V_R=4V,f=1MHz			120	pF

*Pulse test: tp ≤ 300 μs; δ ≤ 0.02.

Typical Characteristics

