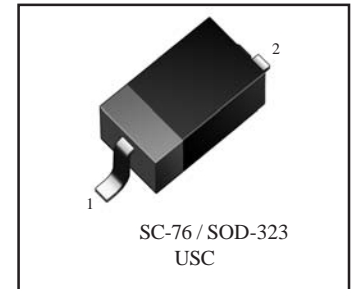


Schottky Power Rectifier

1. FEATURES

- Very small conduction losses
- Negligible switching losses
- Low forward voltage drop
- Surface mount device
- Lead and Mounting Surface Temperature for Soldering Purposes:
260°C Max. for 10 Seconds
- We declare that the material of product compliance with
RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring
unique site and control change requirements; AEC-Q101
qualified and PPAP capable.



2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
FDR46U	S9	3000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Repetitive peak reverse voltage	VRRM	100	V
Continuous forward current	IF	150	mA
Surge Non repetitive forward current	IFSM	1	A
Power Dissipation	PD	250	mW
Storage temperature range	Tstg	-55~+150	°C
Maximum operating junction temperature(Note 1)	Tj	150	°C
Maximum soldering temperature(Note 1)	TL	260	°C

1. Pulse test: tp = 380 μs, δ < 2 %

4. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Thermal resistance from junction to ambient	RθJA	500	°C/W

2. On epoxy printed circuit board with recommended pad layout



FDR46U

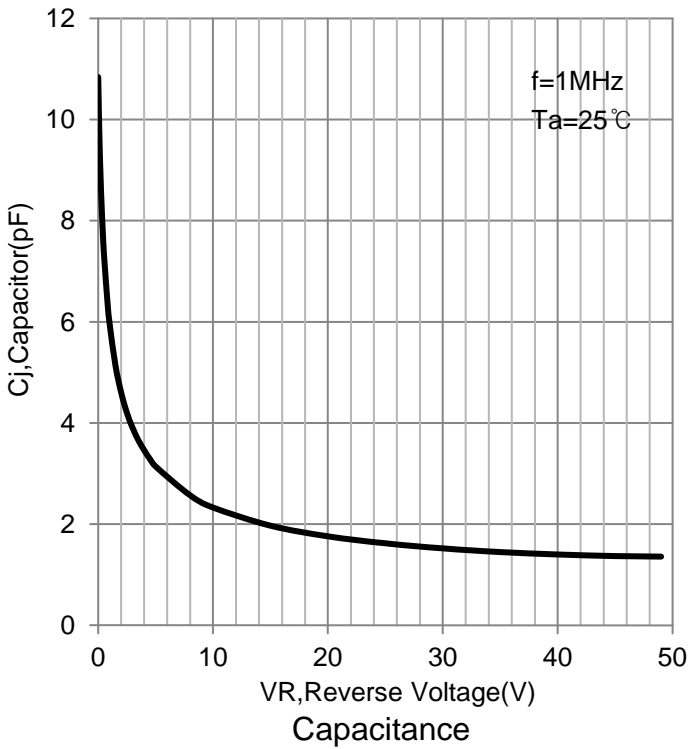
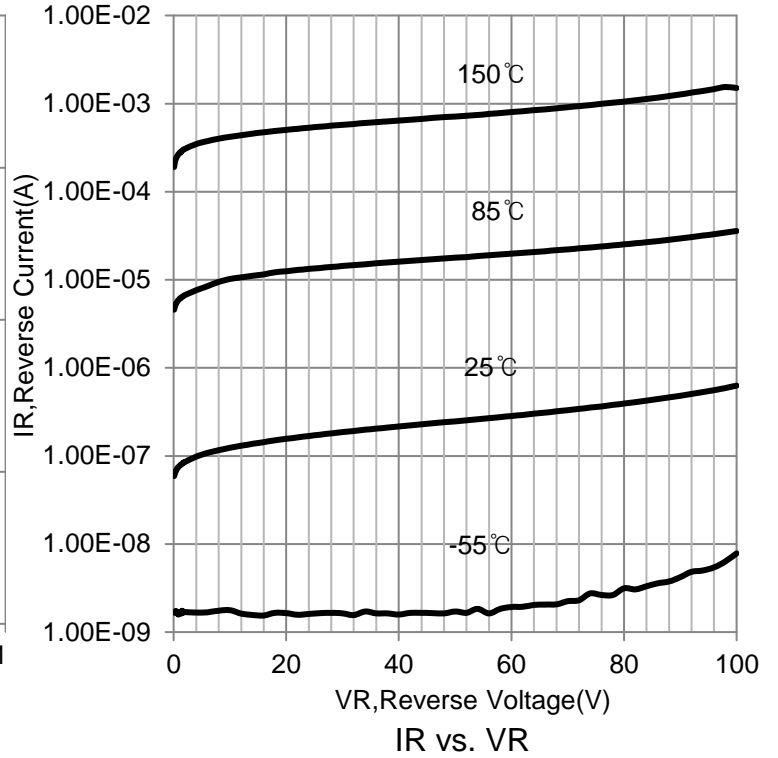
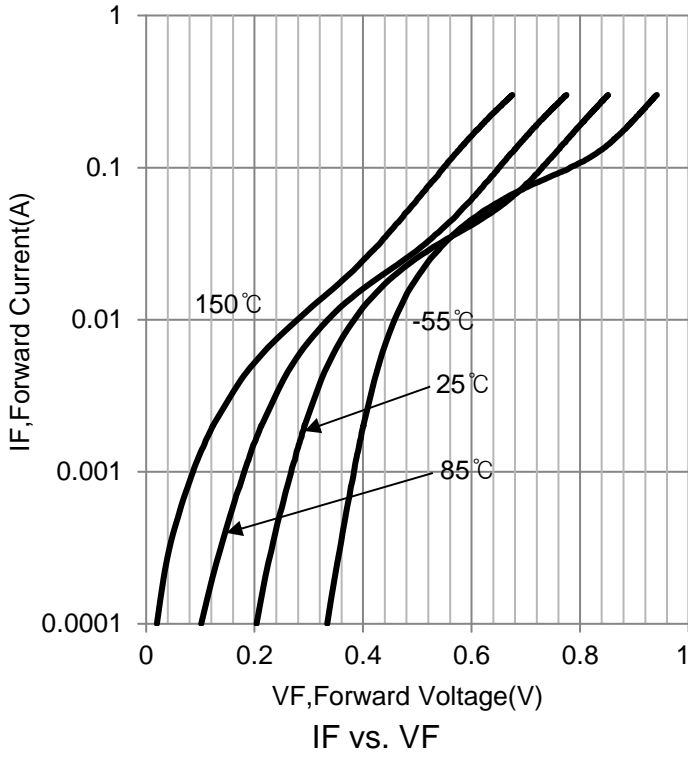
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Leakage Current(Tj = 25°C) (VR=1.5V)	IR(Note 3)	-	-	0.5	μA
(VR=10V)		-	-	0.8	
(VR=50V)		-	-	2	
(VR=75V)		-	-	5	
Reverse Leakage Current(Tj = 60°C) (VR=1.5V)		-	-	5	
(VR=10V)		-	-	7.5	
(VR=50V)		-	-	15	
(VR=75V)		-	-	20	
Forward Voltage(Tj = 25°C) (IF=0.1mA)	VF	-	-	0.25	V
(IF=10mA)		-	-	0.45	
(IF=250mA)		-	-	1	
Diode Capacitance (VR =0V, f=1.0MHz)	Cd	-	11	-	pF
(VR =1V, f=1.0MHz)		-	6	-	

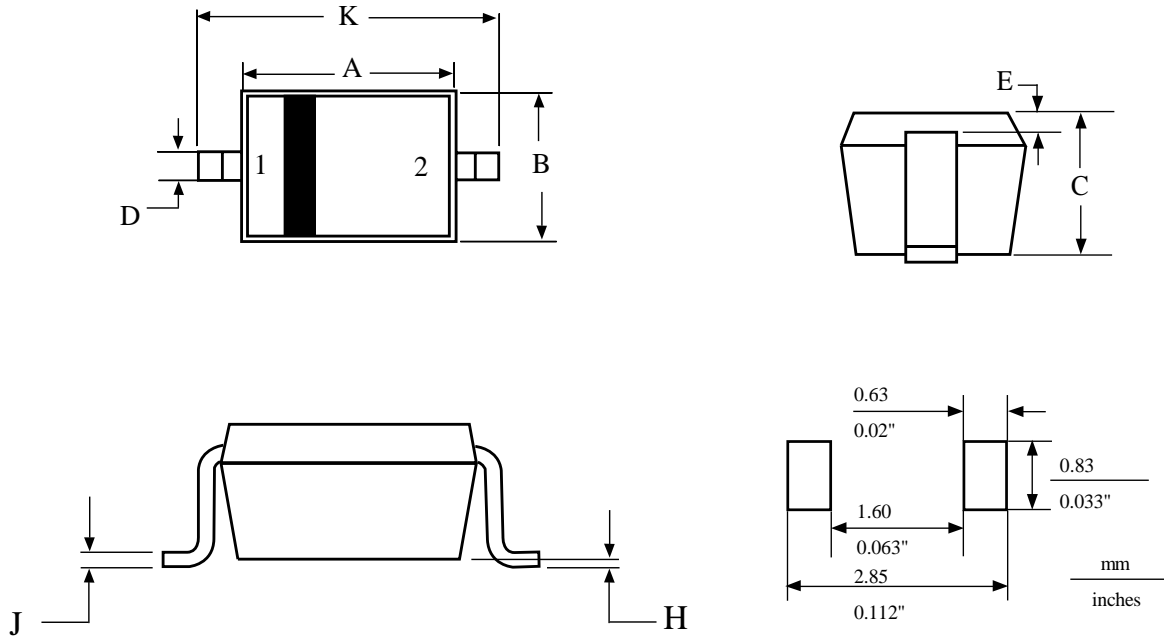
3. Pulse test: tp = 5 ms, δ < 2 %

4. Pulse test: tp = 380 μs, δ < 2 %

6. ELECTRICAL CHARACTERISTICS CURVES



SC-76 / SOD-323



NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.60	1.80	0.063	0.071
b	1.15	1.35	0.045	0.053
C	0.80	1.00	0.031	0.039
D	0.25	0.40	0.010	0.016
E	0.15 REF		0.006 REF	
H	0.00	0.10	0.000	0.004
J	0.089	0.177	0.0035	0.0070
K	2.30	2.70	0.091	0.106

PIN:1:CATHODE
2:ANODE