Features

- Low Forward Voltage Drop
- Very Small SMD Package

Applications

- Low current rectification

Dimensions and Pin Configuration


Marking

4A   Or   S3

ABSOLUTE MAXIMUM RATINGS (T$_a$=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
DC reverse voltage	V$_R$	40	V
Mean rectifying current	I$_O$	1	A
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I$_{FSM}$	7	A
Power Dissipation	P$_D$	0.5	W
Thermal Resistance from Junction to Ambient	R$_{θJA}$	250	℃/W
Operating Junction Temperature Range	T$_J$	-40 ~ +125	℃
Storage Temperature Range	T$_{STG}$	-55 ~ +150	℃

ELECTRICAL CHARACTERISTICS (T$_a$=25℃ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V$_{BR}$	I$_R$ =1mA	40			V
Reverse current	I$_R$	V$_R$ =40V		10	40	μA
Forward voltage	V$_F$	I$_F$ =0.1A		0.35	0.38	V
		I$_F$ =0.2A		0.37	0.40	V
		I$_F$ =0.5A		0.42	0.49	V
		I$_F$ =0.7A		0.47	0.55	V
		I$_F$ =1A		0.51	0.61	V
Total capacitance	C$_{tot}$	V$_R$=10V, f=1MHz		19		pF
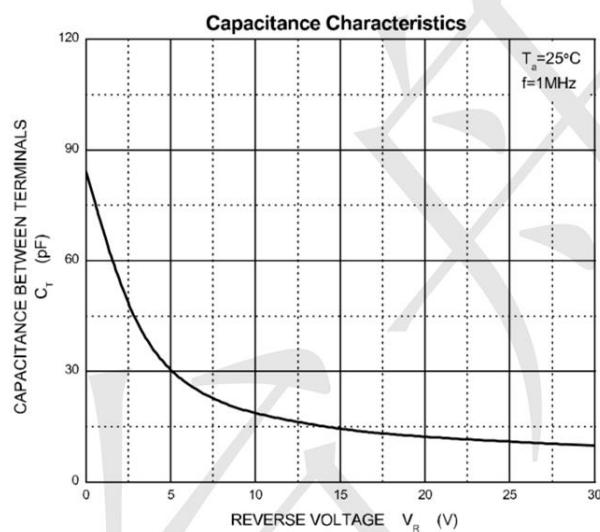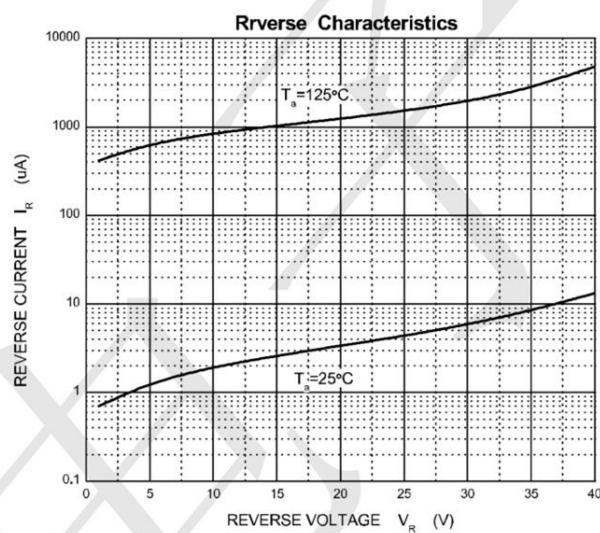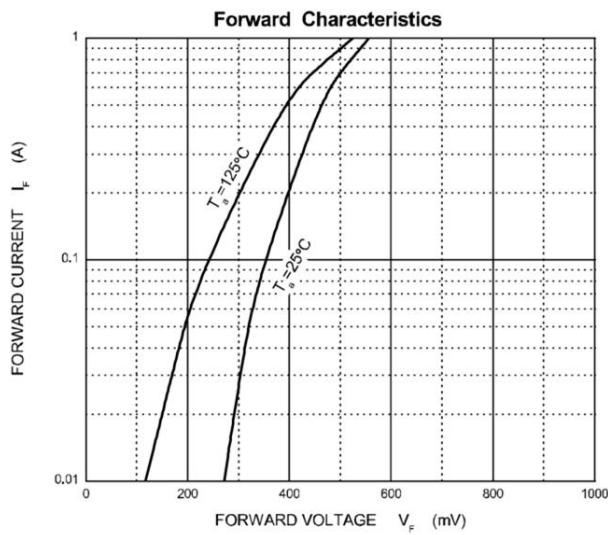
Typical Characteristics

Forward Characteristics

FORWARD CURRENT I_F (A)

$T_a=125°C$

$T_a=25°C$

FORWARD VOLTAGE V_F (mV)

Rrverse Characteristics

REVERSE CURRENT I_R (uA)

$T_a=125°C$

$T_a=25°C$

REVERSE VOLTAGE V_R (V)

Capacitance Characteristics

CAPACITANCE BETWEEN TERMINALS C_T (pF)

$T_a=25°C$
f=1MHz

REVERSE VOLTAGE V_R (V)
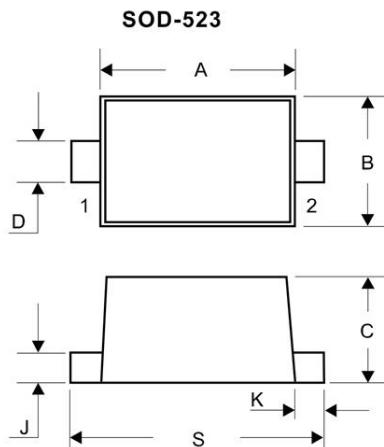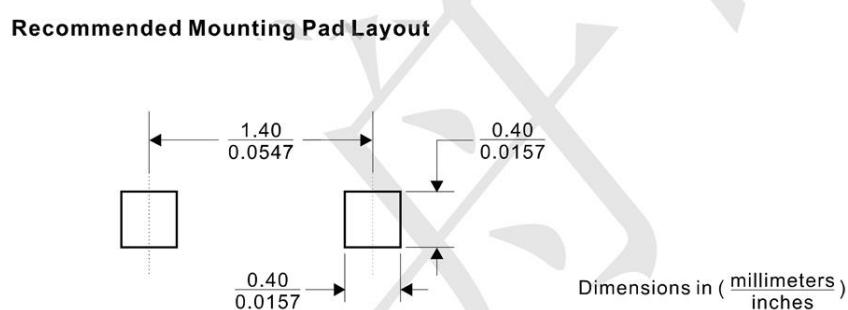
Outline Drawing - SOD-523 (0603)

SOD-523

DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	1.10	1.30	0.043	0.051
B	0.70	0.90	0.028	0.035
C	0.50	0.70	0.020	0.028
D	0.25	0.35	0.010	0.014
J	0.07	0.20	0.0028	0.0079
K	0.15	0.25	0.006	0.010
S	1.50	1.70	0.059	0.067

Land Pattern - SOD-523 (0603)

Recommended Mounting Pad Layout

$\frac{1.40}{0.0547}$

$\frac{0.40}{0.0157}$

$\frac{0.40}{0.0157}$

Dimensions in $\left(\frac{\text{millimeters}}{\text{inches}}\right)$

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