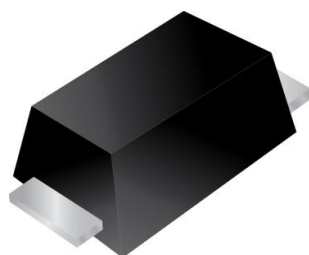




ERS521S



Surface Mount Schottky Barrier Rectifiers



SOD-523



Features

- Small Surface Mounting Type
- Low Reverse Current and Low Forward Voltage
- High Reliability
- Marking : C

Mechanical Data

- Case: SOD-523, Molded Plastic
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: See Diagrams Below
- Mounting position: Any

Ordering Information

Part No.	Package	Packing
ERS521S	SOD-523	3000 / Tape & Reel

Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
DC reverse voltage	V _R	30	V
Mean rectifying current	I _o	200	mA
Peak forward surge current	I _{FSM}	1	A
Junction Temperature	T _J	125	°C
Storage Temperature Range	T _{stg}	-40 ~ 125	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Forward voltage	I _F = 200mA	V _F			0.5	V
Reverse current	V _R = 10V	I _R			30	uA



Surface Mount Schottky Barrier Rectifiers

Rating and Characteristics Curves

Fig 1 Forward Characteristics

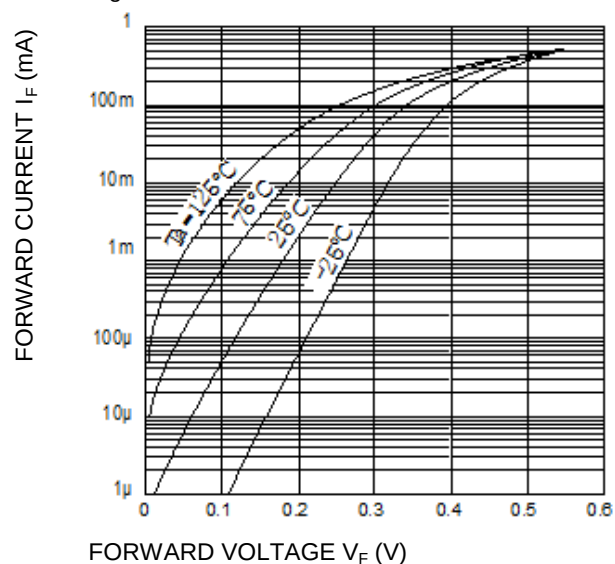


Fig 2 Reverse Characteristics

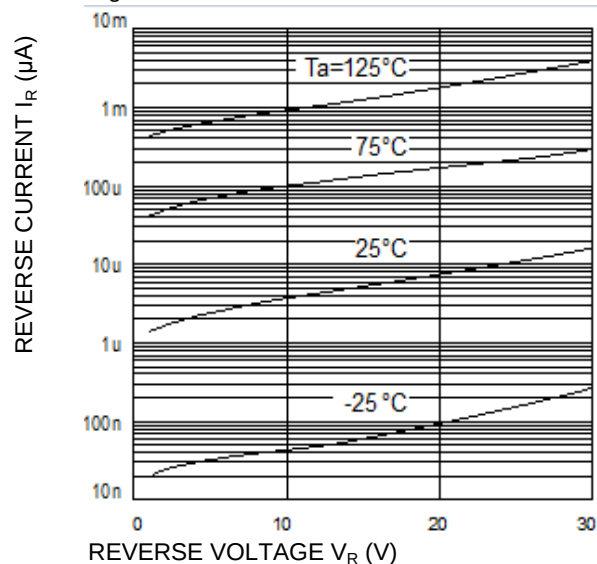


Fig 3 Capacitance Between Terminals Characteristics

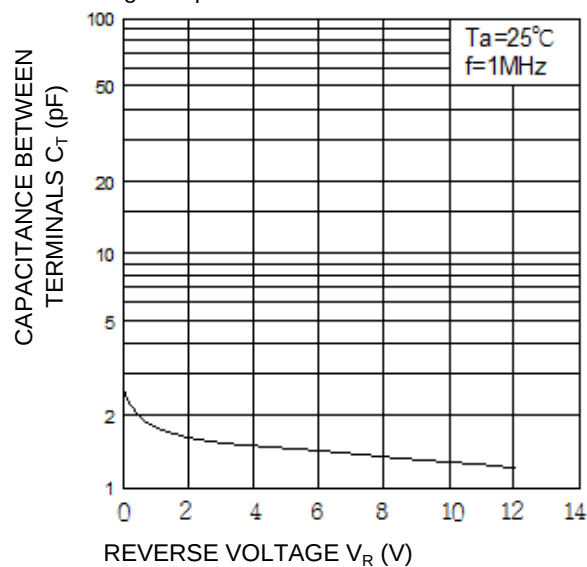
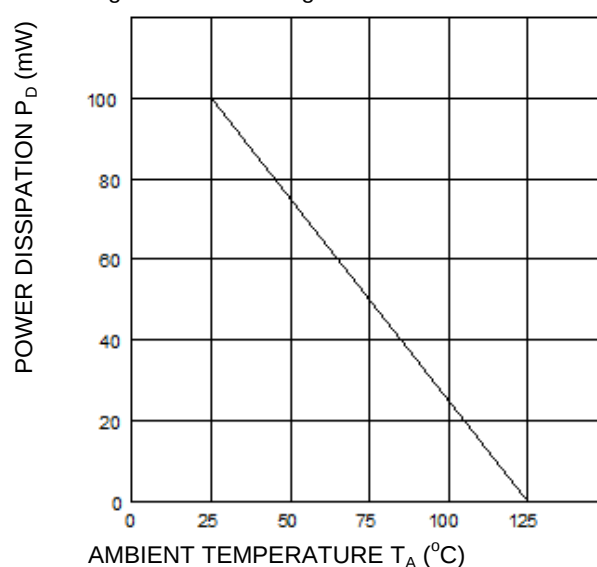


Fig 4 Power Derating Curve



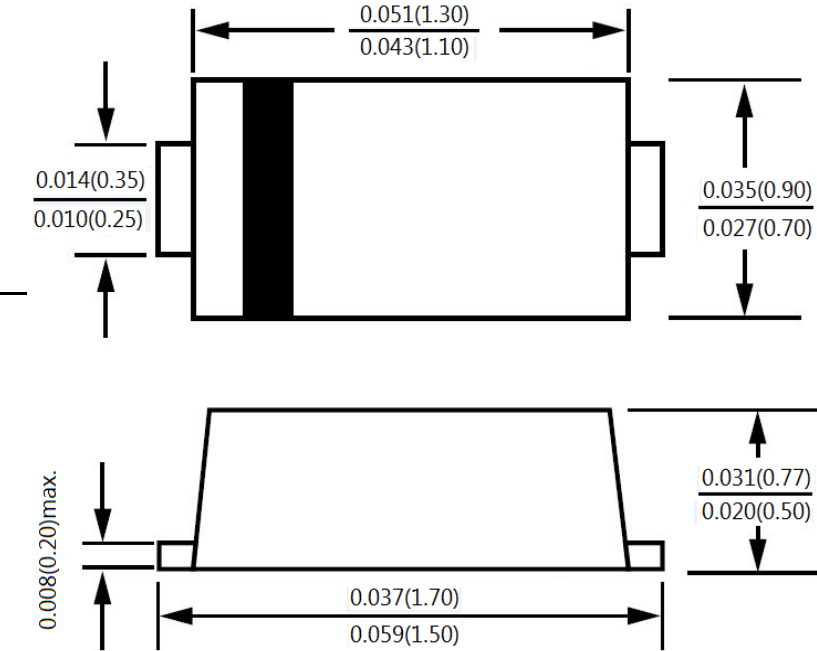


ERS521S



Surface Mount
Schottky Barrier Rectifiers

Package Outline Dimensions

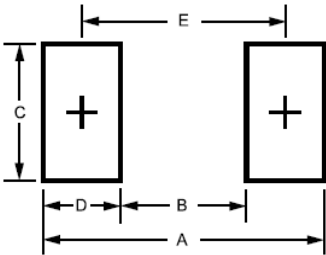


SOD-523

Dimensions in inches and (millimeters)

Suggested Pad Layout

Outline Symbol	SOD-523 millimeters
A	3.05
C	0.80
D	0.80
E	-
F	-



Tape & Reel Specification

Item	Symbol	Dimension millimeters
Carrier width	A	8.1 ±0.2
Carrier length	B	2.0 ±0.05
Carrier depth	C	0.73 ±0.05
Sprocket hole	d	1.55 ±0.05
Reel outside diameter	D	178 Max
Reel inner diameter	D1	54.5 Min
Feed hole width	D2	13.0 ±0.2
Sprocket hole position	E	1.75 ±0.1
Punch hole position	F	3.5 ±0.05
Punch hole pitch	P	2.0 ±0.05
Sprocket hole pitch	P0	4.0 ±0.1
Embossment center	P1	2.0 ±0.05
Tape width	W	8.1 ±0.2
Reel width	W1	9.4 ±1.5

