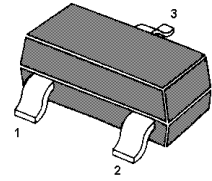
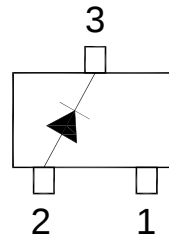


SDB531S

Silicon Epitaxial Planar Schottky Barrier Diode

High frequency rectification



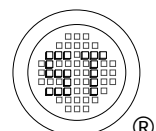
Marking Code: **FJ**
TO-236 Plastic Package

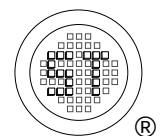
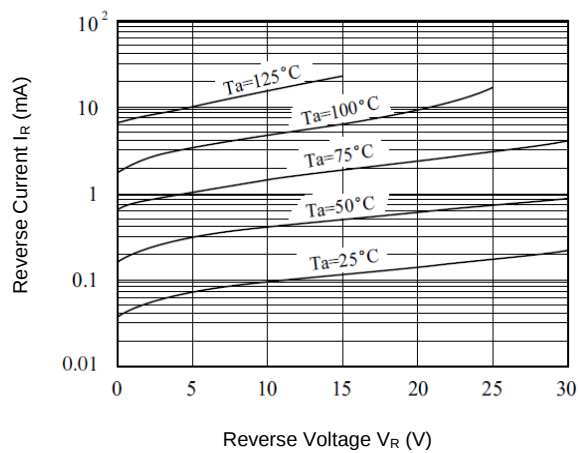
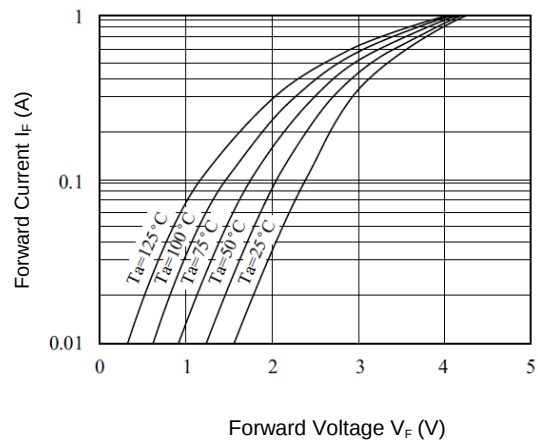
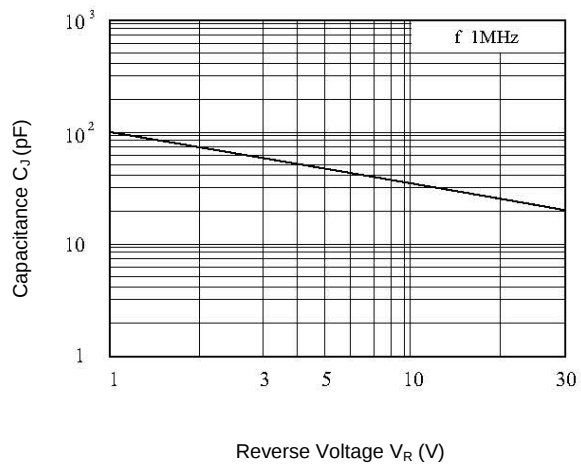
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Reverse Voltage	V_R	30	V
Average Forward Current	$I_{F(AV)}$	1	A
Non-repetitive Peak Surge Current	I_{FSM}	10	A
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 125	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

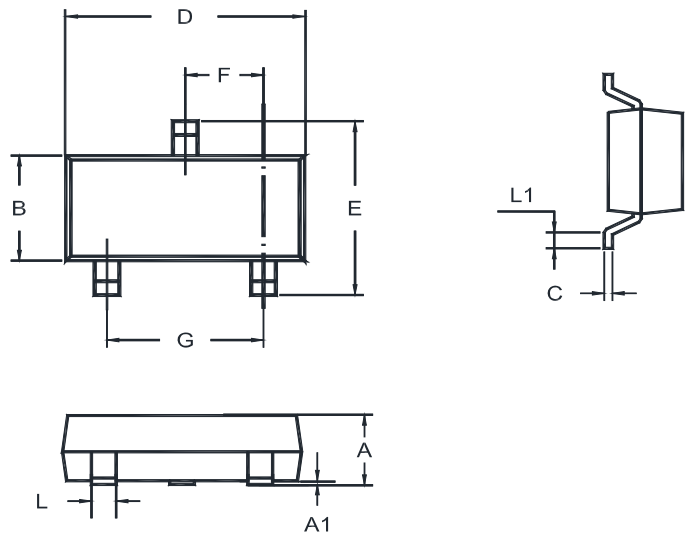
Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 0.5\text{ A}$ at $I_F = 1\text{ A}$	V_F	- -	0.4 0.47	V
Reverse Current at $V_R = 15\text{ V}$ at $V_R = 30\text{ V}$	I_R	- -	500 1000	μA
Junction Capacitance at $V_R = 10\text{ V}$, $f = 1\text{ MHz}$	C_j	35	-	pF
Reverse Recovery Time at $I_F = I_R = 100\text{ mA}$	t_{rr}	-	15	ns





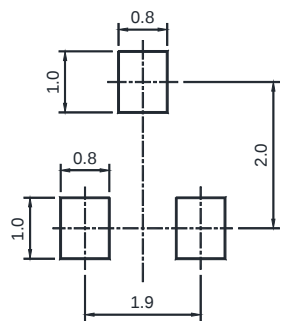
Package Outline (Dimensions in mm)

TO-236



Unit	A	A1	B	C	D	E	F	G	L	L1
mm	1.20	0.100	1.40	0.19	3.04	2.6	1.02	2.04	0.51	0.2
	0.89	0.013	1.20	0.08	2.80	2.2	0.89	1.78	0.37	MIN

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
TO-236	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

" FJ " = Part No.
"YM" = Date Code Marking
"Y" = Year
"M" = Month
Font type: Arial

