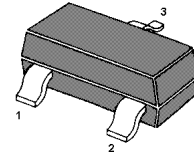
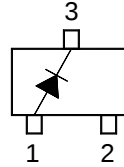


SDB105S

Silicon Epitaxial Planar Schottky Barrier Diode

High frequency rectification



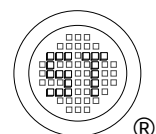
Marking Code: **DL**
TO-236 Plastic Package

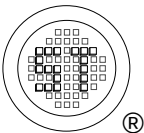
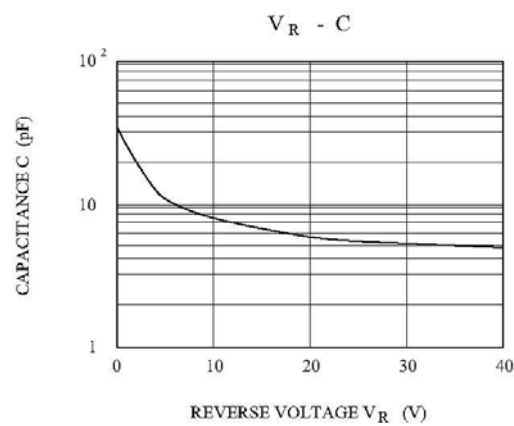
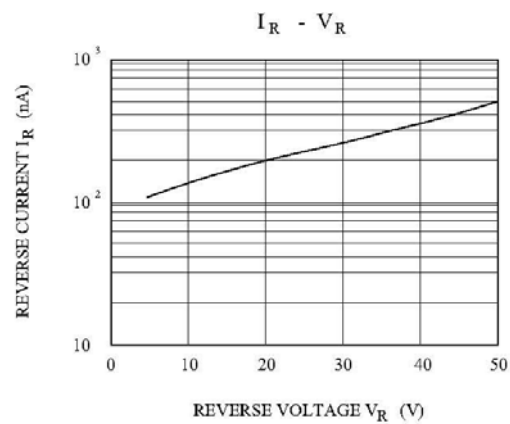
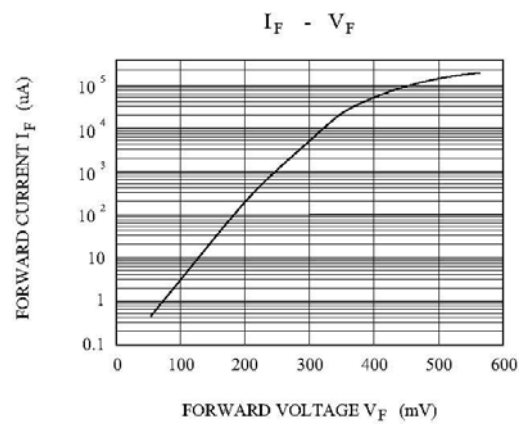
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	50	V
Reverse Voltage	V_R	50	V
Average Forward Current	$I_{F(AV)}$	100	mA
Non-repetitive Peak Surge Current	I_{FSM}	2	A
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 125	$^\circ\text{C}$

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

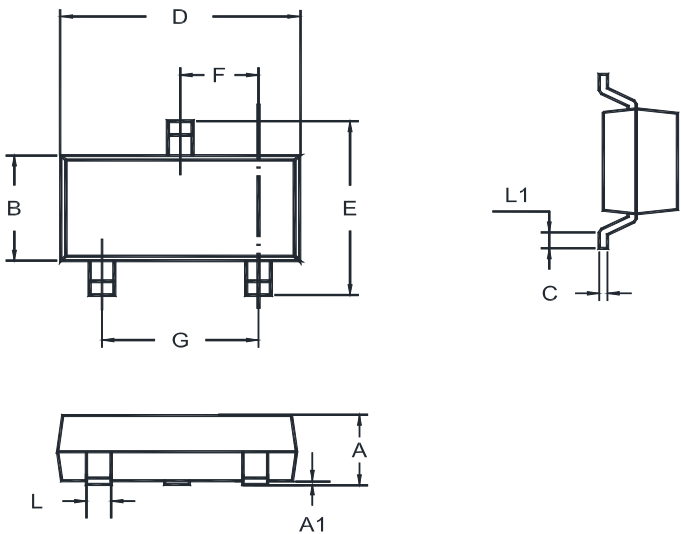
Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Voltage at $I_R = 50\ \mu\text{A}$	V_R	50	-	-	V
Forward Voltage at $I_F = 100\ \text{mA}$	V_F	-	-	0.55	V
Reverse Current at $V_R = 25\ \text{V}$	I_R	-	-	10	μA
Total Capacitance at $V_R = 10\ \text{V}$, $f = 1\ \text{MHz}$	C_T	-	7.7	-	pF





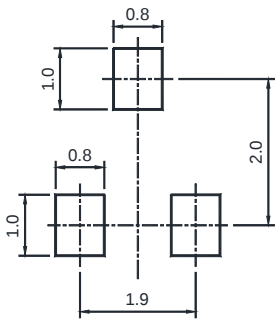
Package Outline (Dimensions in mm)

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

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

