

V_{RM}	90	V
I_{FM}	225	mA
I_o	100	mA
I_{FSM}	500	mA

● Features

- High reliability
- Small mold type
- High Speed switching

● Application

- High speed switching

● Structure

- Epitaxial planar

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

Parameter	Symbol	Conditions	Limits	Unit
Reverse voltage	V_R	-	80	V
Repetitive peak reverse voltage	V_{RM}	-	90	V
Average rectified forward current	I_o	-	100	mA
Forward current	I_{FM}	-	225	mA
Peak forward surge current	I_{FSM}	$t=1\text{s}$	500	mA
Junction temperature	T_j	-	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-	-55 ~ 150	$^\circ\text{C}$

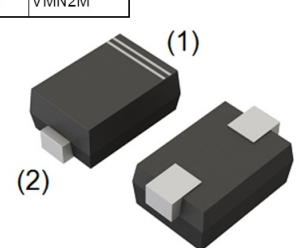
● Characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=100\text{mA}$	-	-	1.2	V
Reverse current	I_R	$V_R=80\text{V}$	-	-	100	nA
Capacitance between terminals	C_t	$V_R=0.5\text{V } f=1.0\text{MHz}$	-	-	3.0	pF
Reverse recovery time	t_{rr}	$V_R=6.0\text{V } I_F=10\text{mA } R_L=100\Omega$	-	-	4.0	ns

※Caution: static electricity

● Outline

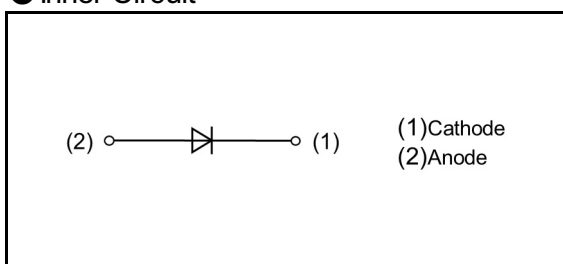
Package Code	SOD-923
JEITA Code	-
ROHM Code	VMN2M



(1)
(2)

*Note: This package is backside terminal.
It may not form fillet when soldering.

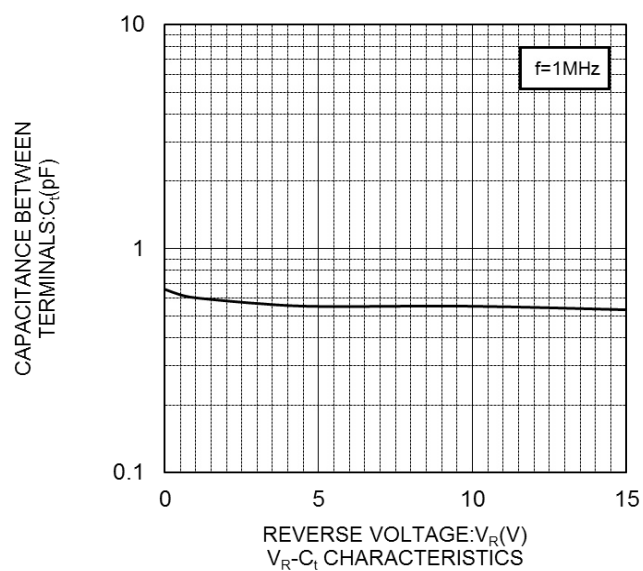
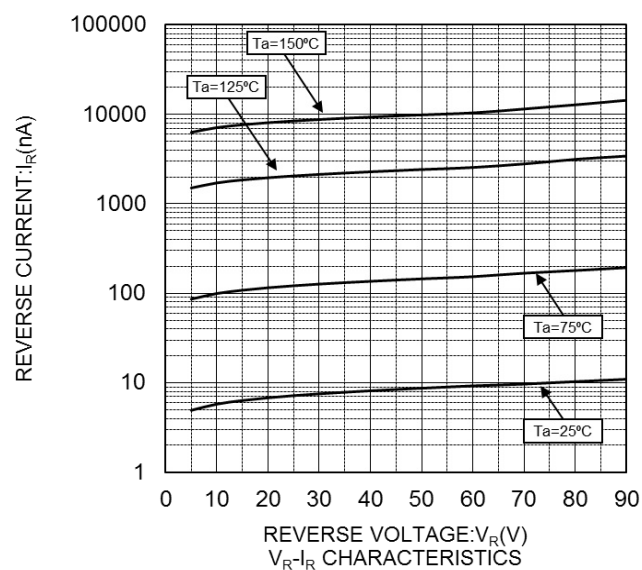
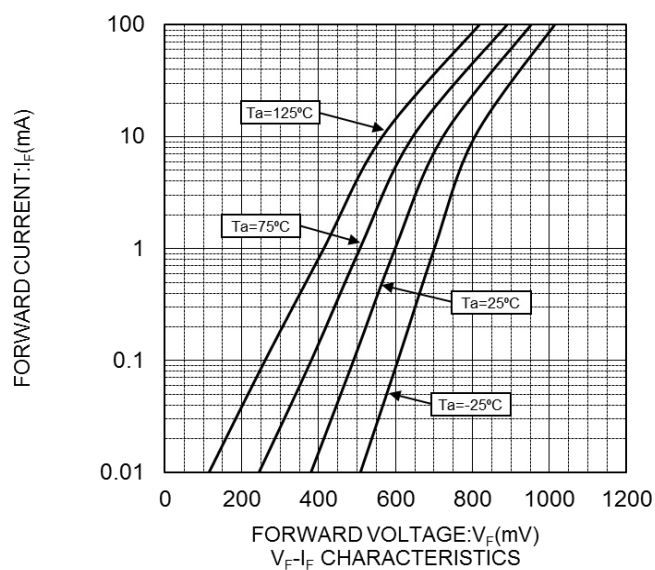
● Inner Circuit



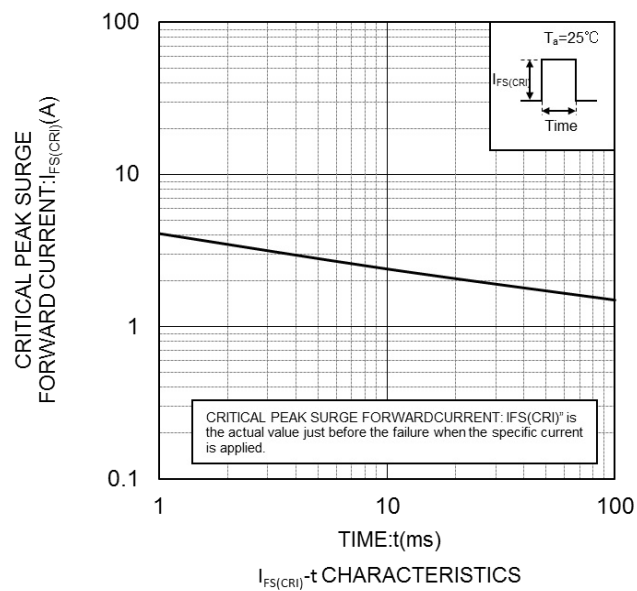
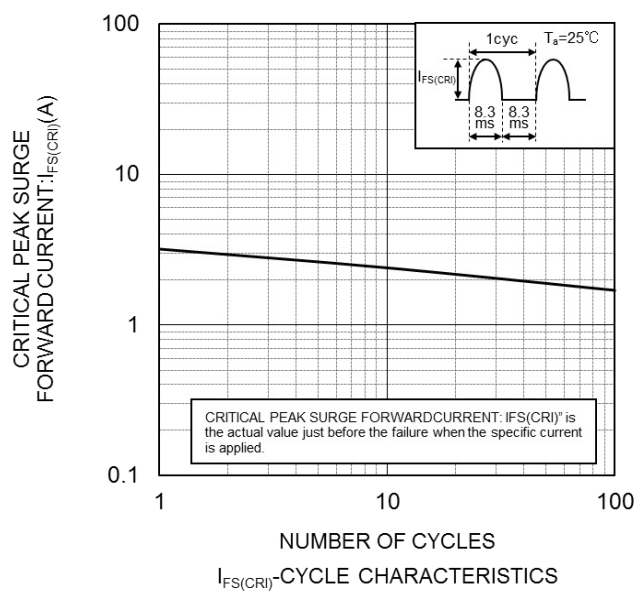
● Packaging Specifications

Packing	Embossed Tape
Reel Size(mm)	180
Taping Width(mm)	8
Quantity(pcs)	8000
Taping Code	T2R
Marking	3

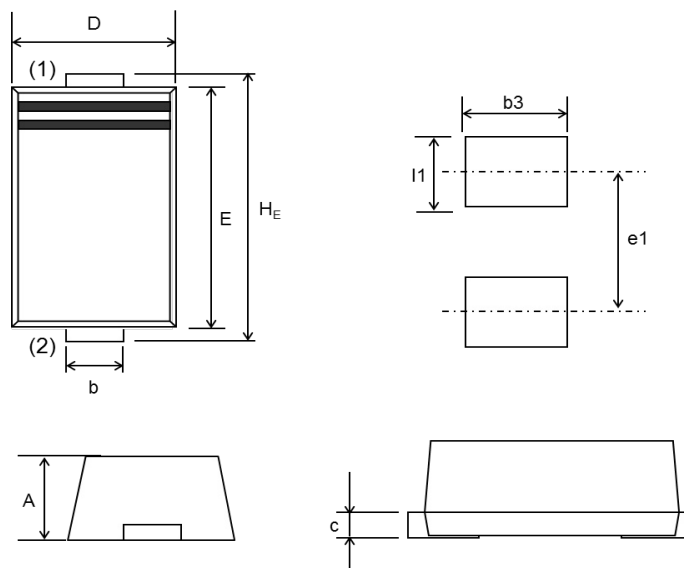
● Characteristic Curves



● Characteristic Curves



● Dimensions (SOD-923 VMN2M)



DIM	Millimeters			Inches		
	Min.	Average	Max.	Min.	Average	Max.
A	0.34	0.37	0.40	0.013	0.015	0.016
b	0.17	0.22	0.27	0.007	0.009	0.011
c	0.11	0.16	0.21	0.004	0.006	0.008
D	0.55	0.60	0.65	0.022	0.024	0.026
E	0.81	0.86	0.91	0.032	0.034	0.036
H _E	0.95	1.00	1.05	0.037	0.039	0.041
l1	-	0.45	-	-	0.018	-
b3	-	0.55	-	-	0.022	-
e1	-	0.95	-	-	0.037	-

- (1) The marking bar indicates the cathode.
 (2) The direction indicates the anode.

● Taping (Unit:mm)

