

$V_{RM}$	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 ( $T_a = 25^{\circ}C$ )

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=1s	500	mA
Junction temperature	$T_j$	-	150	$^{\circ}C$
Storage temperature	$T_{stg}$	-	-55 ~ 150	$^{\circ}C$

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

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

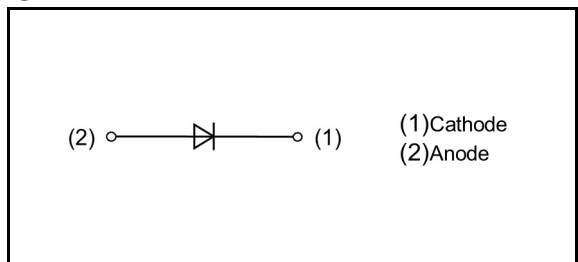
※Caution: static electricity

● Outline

Package Code	SOD-923
JEITA Code	-
ROHM Code	VMN2M

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

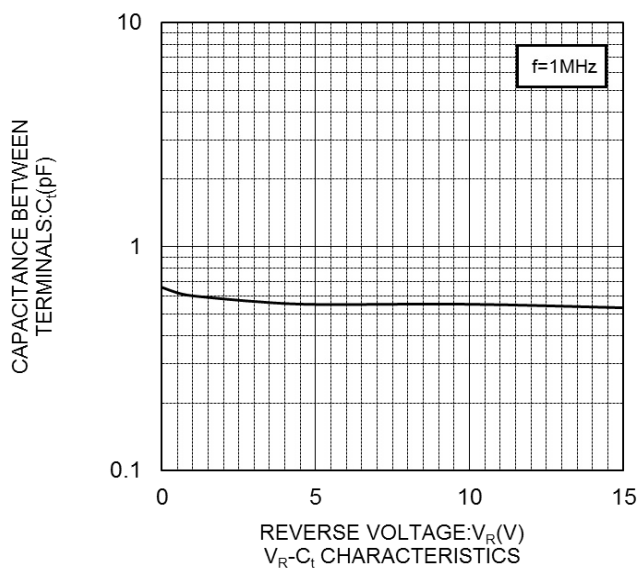
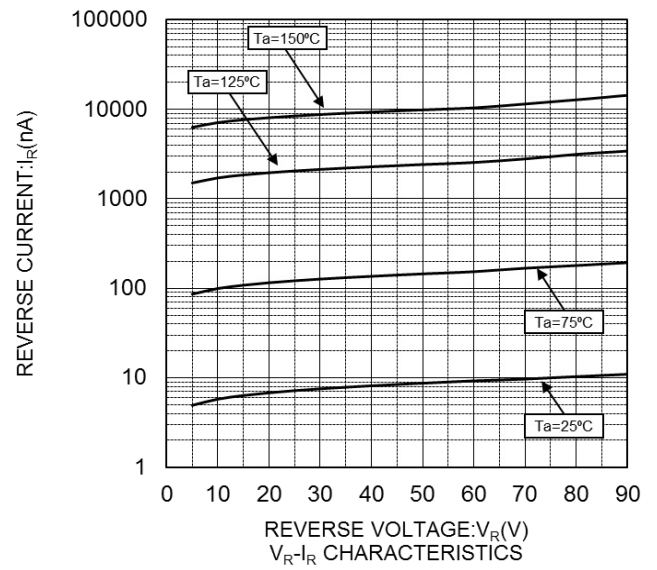
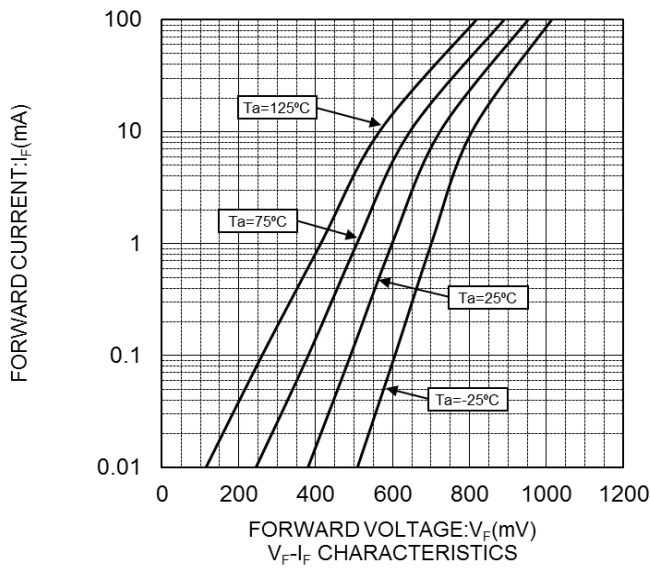
● Inner Circuit



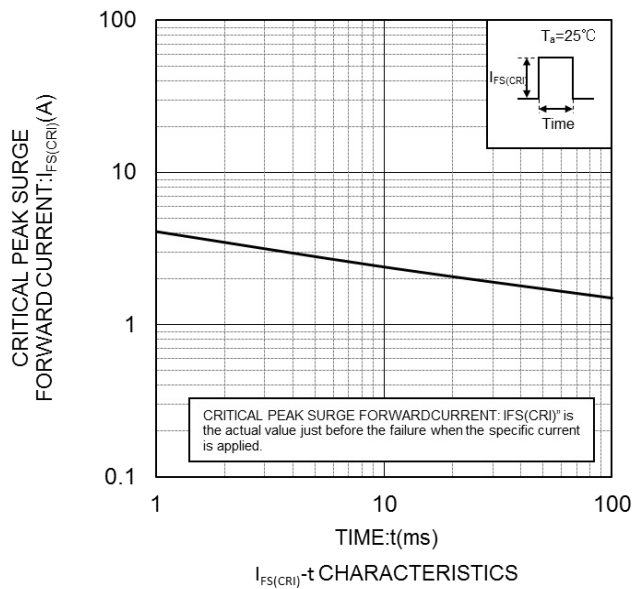
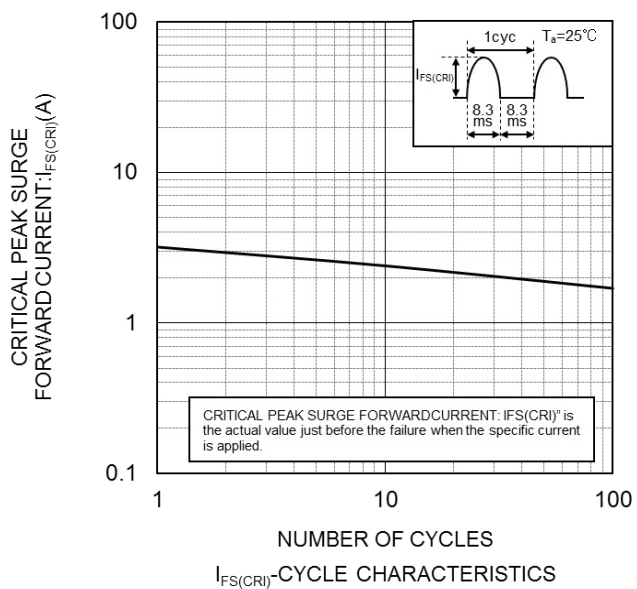
● Packaging Specifications

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

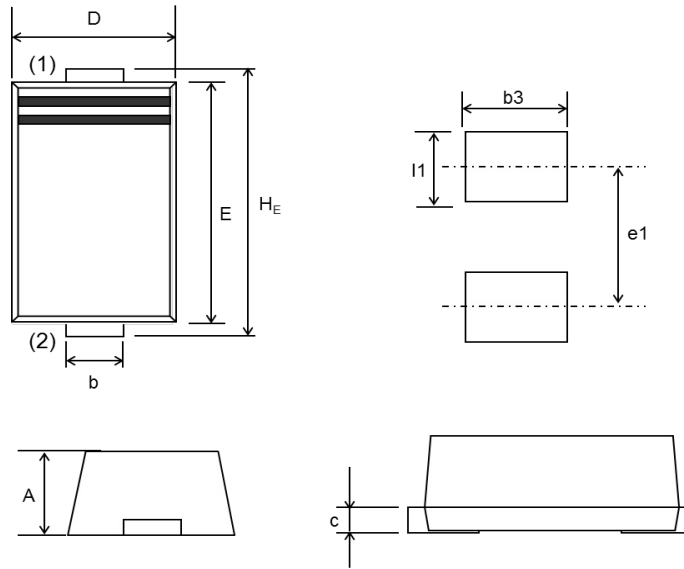
## ● Characteristic Curves



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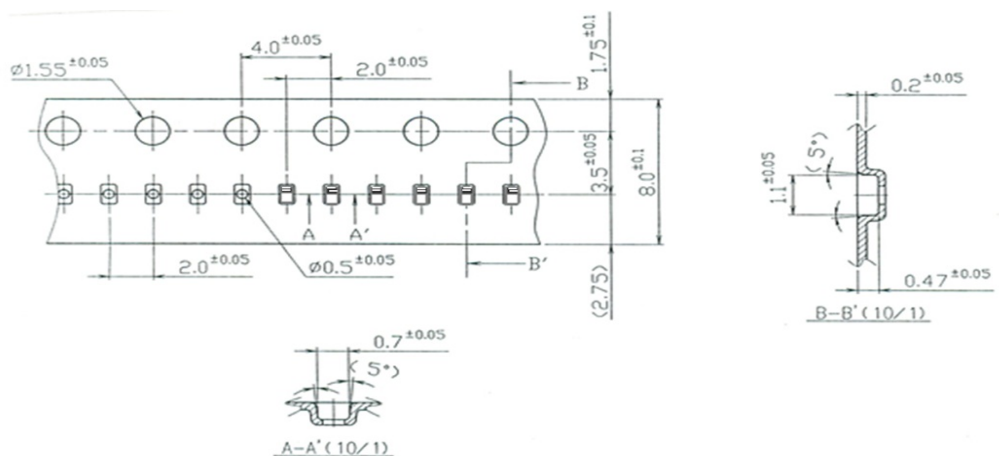
● Dimensions (SOD-923 VMN2M)



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
HE	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)



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