

DA221M

Ultra high speed switching

- 1) Ultra small mold type. (VMD3)
- 2) High reliability.

Silicon epitaxial planar

The drawing shows the mechanical specifications for the ROHM VMD3 package. The top view includes dimensions for the overall width (1.2 ± 0.1 mm), the distance from the left edge to the center of the mounting pad (0.32 ± 0.05 mm), the width of the mounting pad (1.7 ± 0.1 mm), and the distance from the center of the mounting pad to the right edge (0.8 ± 0.1 mm). The package is labeled with a large 'K' and a dashed rectangle indicating the internal structure. The side view shows the package height (0.13 ± 0.05 mm) and the distance from the bottom edge to the center of the mounting pad (0.5 ± 0.05 mm). The package is labeled with a large 'K' and a dashed rectangle indicating the internal structure.

(1)D1:A (2)D2:C
(3)D1:C D2:A

ROHM : VMD3

dot (year week factory)

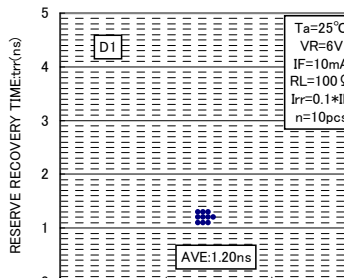
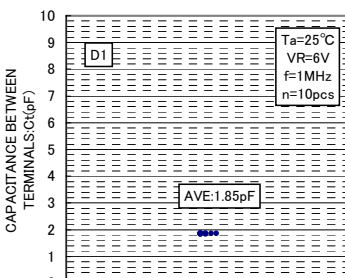
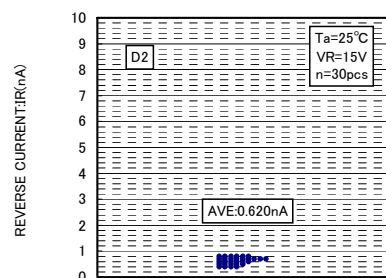
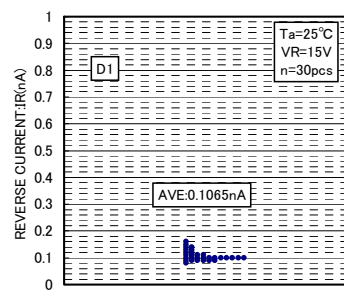
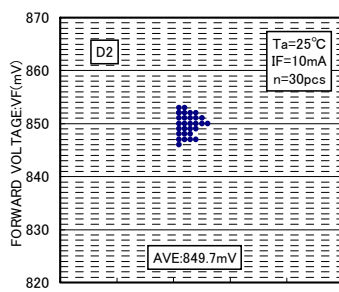
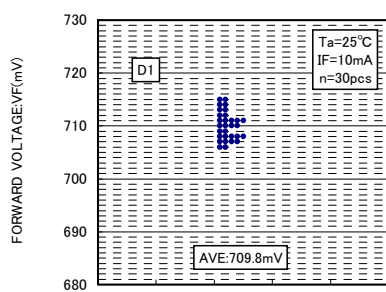
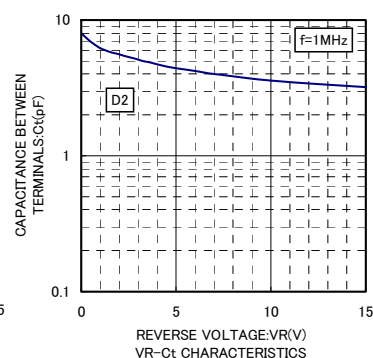
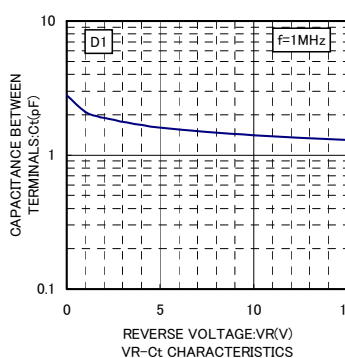
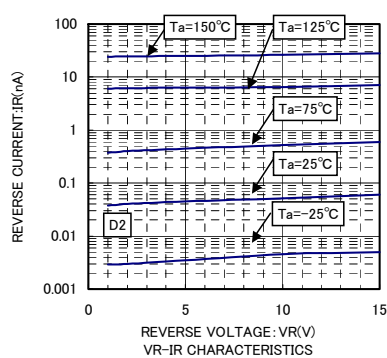
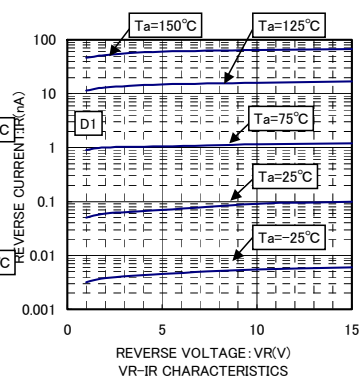
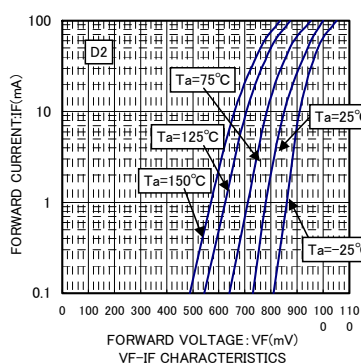
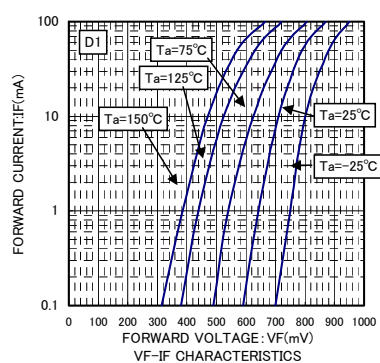
Technical drawing of a mechanical part, showing a side view and a cross-section. The side view includes dimensions: 4.0 ± 0.07, 2.0 ± 0.04, 1.55 ± 0.05, 1.75 ± 0.07, 3.5 ± 0.05, 5.5 ± 0.2, 1.35 ± 0.038, 0, 0.6 ± 0.05, 0.0 ± 0.1, 8.0 ± 0.1, 1.3 ± 0.05, 0, (4.0 ± 0.1), 2.0 ± 0.05, 0.5 ± 0.05, 0 ± 0.1. The cross-section shows a profile with a width of 0.6 ± 0.05 and a height of 0.3 ± 0.1.

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	20	V
Reverse voltage (DC)	V_R	20	V
Forward current surge peak (single)	I_{FM}	200	mA
Average rectified forward current (single)	I_o	100	mA
Surge current($t=1\mu s$) (single)	I_{surge}	300	mA
Power dissipation	P_d	150	mW
Junction temperature	T_j	150	$^{\circ}C$
Storage temperature	T_{stg}	-55 to +150	$^{\circ}C$

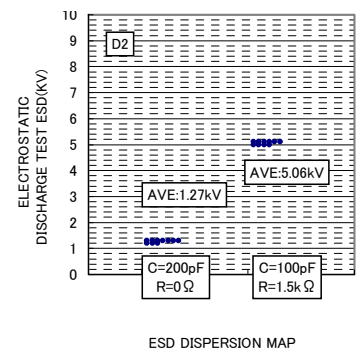
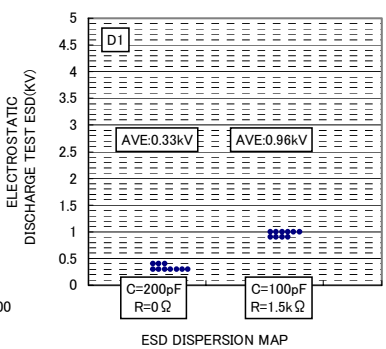
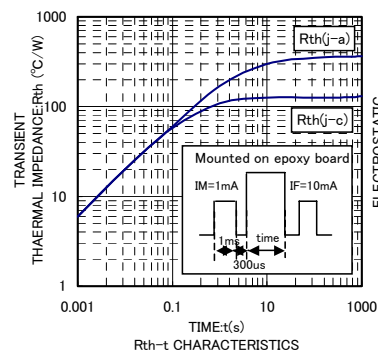
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.0	V	$I_F=10\text{mA}$
Reverse current	I_R	-	-	0.1	μA	$V_R=15\text{V}$
Capacitance between terminals	C_t	-	-	4.0	pF	$V_R=6\text{V}$, $f=1\text{MHz}$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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