# Super Fast Recovery Diode

RFU02VSM8S Data Sheet

#### Serise

Standard Fast Recovery

## Application

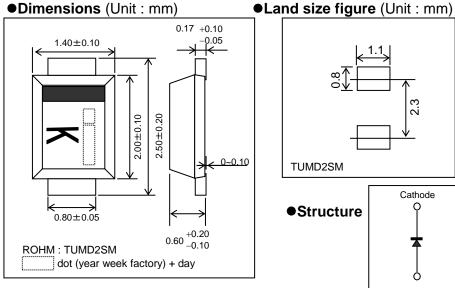
High frequency rectification

#### Features

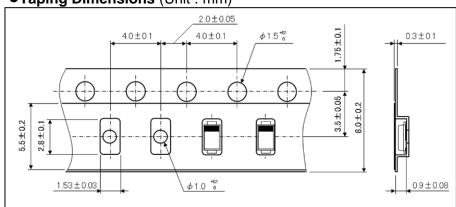
- 1) Small mold type (TUMD2SM)
- 2) High speed switching

#### Construction

Silicon epitaxial planar type



● Taping Dimensions (Unit: mm)



## ● Absolute maximum ratings (T<sub>I</sub>= 25°C)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	$V_{RM}$	Duty≦0.5	800	V
Reverse voltage	$V_R$	Direct voltage	800	V
Average current	I <sub>o</sub>	On glass epoxy substrate 60Hz half sin wave , Resistive load	0.2	Α
Non-repetitive forward surge current	I <sub>FSM</sub>	60Hz half sin wave ,Non-repetitive at $T_j$ =25°C	1	Α
Operating junction temperature	Tj	-	150	°C
Storage temperature	T <sub>stg</sub>	-	-55 to +150	°C

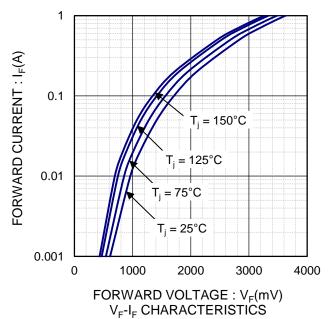
## ●Electrical characteristics (T<sub>i</sub> = 25°C)

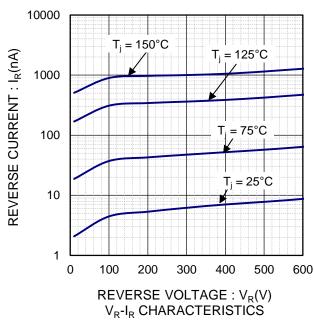
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	$V_{F}$	I <sub>F</sub> =0.2A	-	2.2	3.0	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =800V	-	0.01	10	μА
Reverse recovery time	trr	I <sub>F</sub> =0.1A, I <sub>R</sub> =0.1A, Irr=0.1×I <sub>R</sub>	1	20	35	ns
Reverse recovery time	trr	I <sub>F</sub> =0.1A, I <sub>R</sub> =0.2A, Irr=0.1×I <sub>R</sub>	-	13	25	ns
Thermal capacitance	C <sub>t</sub>	V <sub>R</sub> =0V, f=1MHz	-	4	-	pF

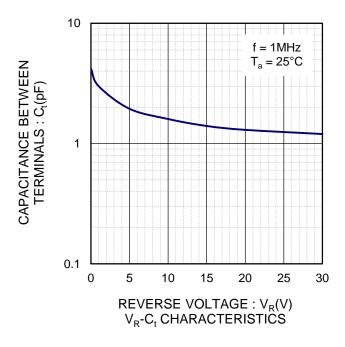
Cathode

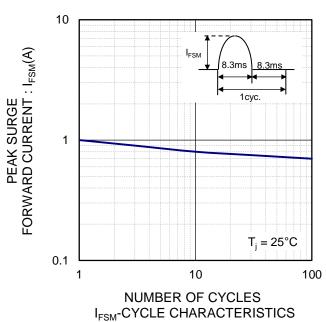
Anode

### •Electrical characteristic curves

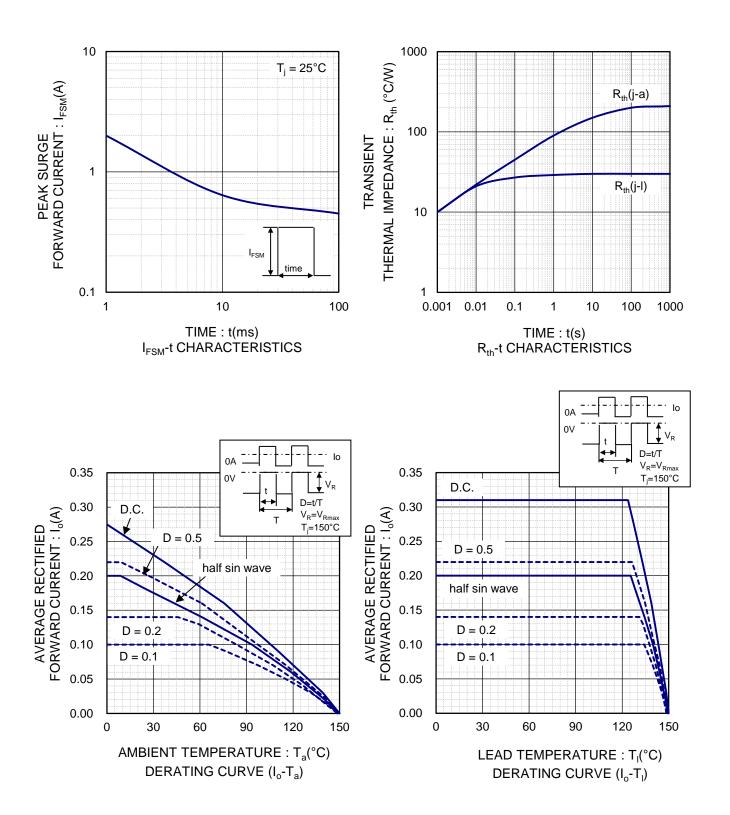




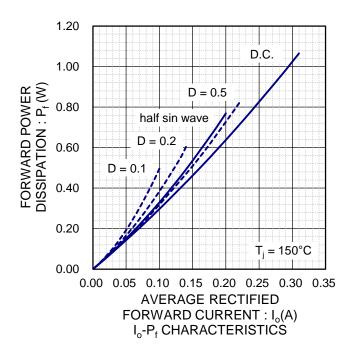




#### •Electrical characteristic curves



### •Electrical characteristic curves



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