

# Super Fast Recovery Diode

#### Series

Ultra Fast Recovery

#### Applications

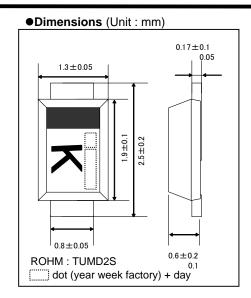
High frequency rectification

## ● Features

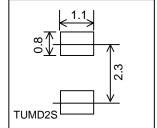
1)Small mold type.(TUMD2S)2)high switching speed

#### Construction

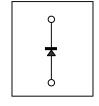
Silicon epitaxial planer



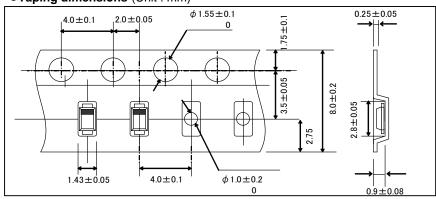
# ●Land size figure (Unit : mm)



Structure



### ●Taping dimensions (Unit:mm)

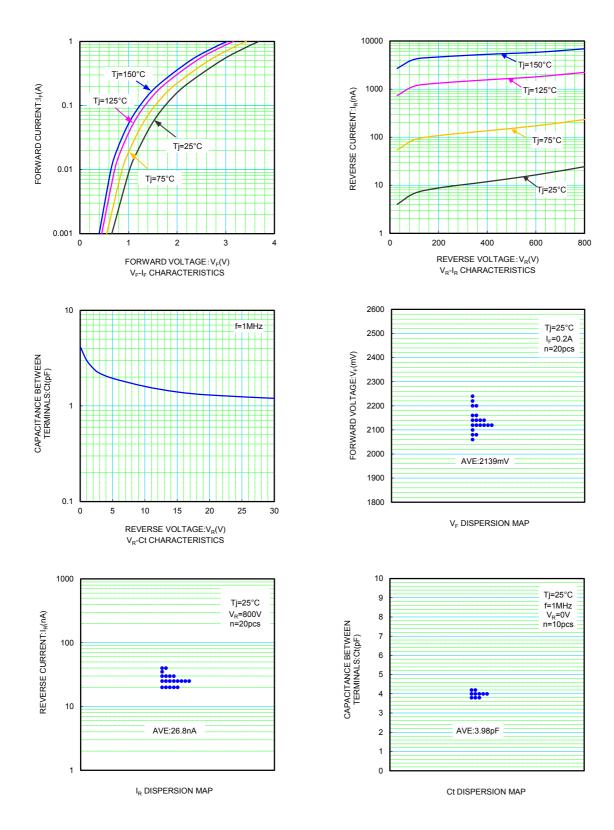


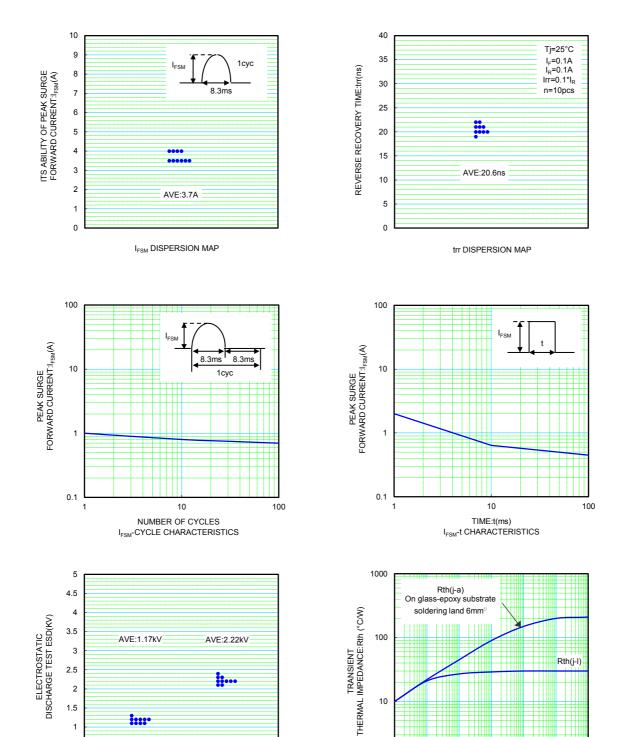
## ●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak Reverse voltage	$V_{RM}$	D≤0.5	800	V
Reverse voltage	$V_R$	Direct voltage	800	V
Average rectified forward current	lo	Glass epoxy substrate mounted R-road, 60Hz half sin wave	0.2	А
Forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave, Non-repetitive one cycle peak value, Tj=25°C	1	А
Junction temperature	Tj		150	°C
Storage temperature	Tstg		-55 to +150	°C

#### ●Electrical characteristics (Tj=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	μΑ
Reverse recovery time	trr	$I_F=0.1A, I_R=0.1A, Irr=0.1 \times I_R$	_	20	35	ns
Reverse recovery time	trr	$I_F=0.1A, I_R=0.2A, Irr=0.1 \times I_R$	_	13	25	ns
Thermal capacitance	Ct	V <sub>R</sub> =0V,f=1MHz	_	4	_	pF





**!:::**•

C=200pF

R=0Ω

ESD DISPERSION MAP

C=100pF

R=1.5kΩ

0.5

0

0.001

0.01

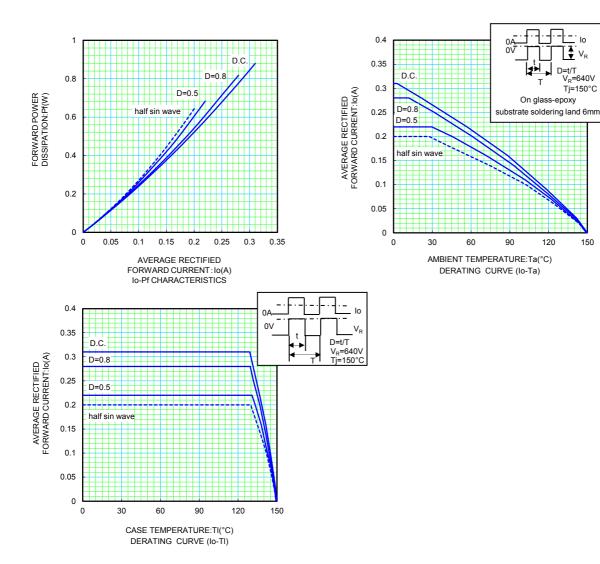
TIME:t(s) Rth-t CHARACTERISTICS

100

1000

lo

150



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