

# Fast recovery Diode

## RF103L2S

### ●Applications

High frequency rectification

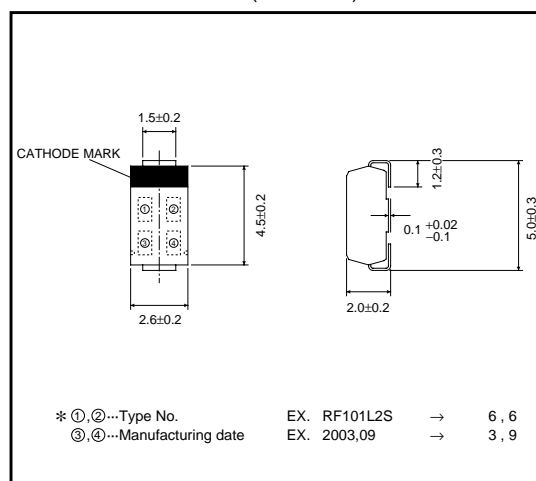
### ●Features

- 1) Small power mold type (PMDS)
- 2) Ultra low VF
- 3) Very fast recovery
- 4) Low switching loss

### ●Construction

Silicon epitaxial planar

### ●External dimensions (Unit : mm)



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V <sub>RM</sub>	200	V
Reverse voltage (DC)	V <sub>R</sub>	200	V
Average rectified forward current *	I <sub>o</sub>	1.0	A
Forward Peak surge current (60Hz· 1cyc.)	I <sub>FSM</sub>	20	A
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-40 to +150	°C

\* Mounting on glass epoxy board

### ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	0.860	0.920	V	I <sub>F</sub> =1.0A
Reverse current	I <sub>R</sub>	1.2	10	μA	V <sub>R</sub> =200V
Reverse recovery time	t <sub>rr</sub>	9	20	nS	I <sub>F</sub> =0.5A
					I <sub>R</sub> =1.0A
					I <sub>rr</sub> =0.25 × I <sub>R</sub>

Diodes

●Electrical characteristic curves (Ta=25°C)

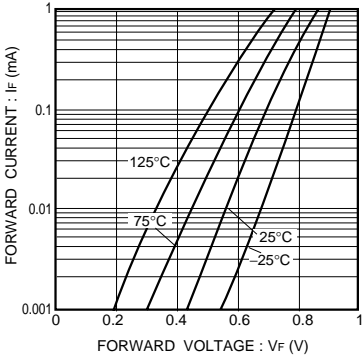


Fig.1 Forward temperature characteristics

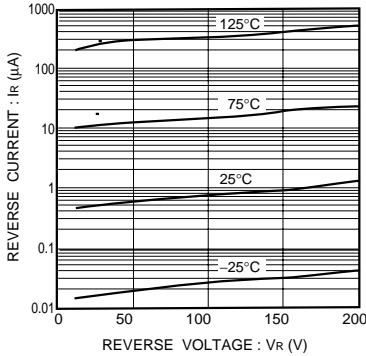


Fig.2 Reverse temperature characteristics

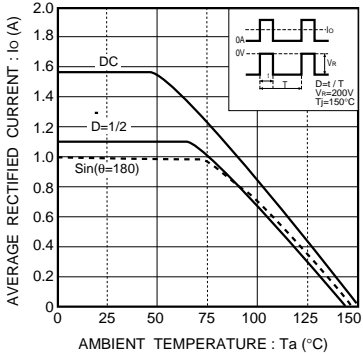


Fig.3 Derating curve

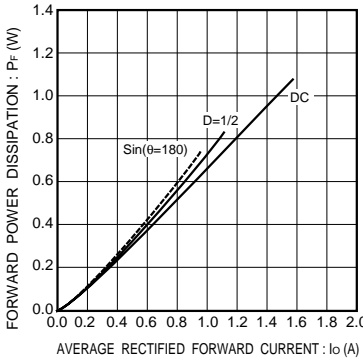


Fig. 4 Power dissipation characteristics

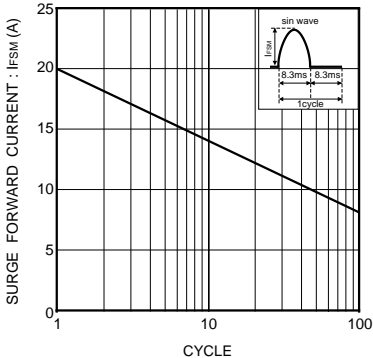


Fig.5 Power peak surge current

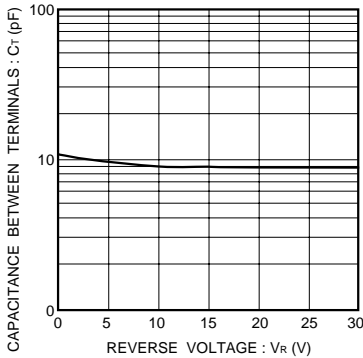


Fig. 6 Capacitance between terminals characteristics

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