# Fast recovery Diode RF103L2S

# Applications

High frequency rectification

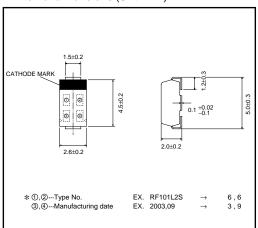
### ● Features

- 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)

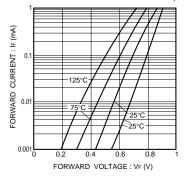
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	Vrm	200	V
Reverse voltage (DC)	VR	200	V
Average rectified forward current *	lo	1.0	Α
Forward Peak surge current (60Hz·1cyc.)	IFSM	20	Α
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-40 to +150	°C

<sup>\*</sup> Mounting on glass epoxi board

# ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Тур.	Max.	Unit	Conditions
Forward voltage	VF	0.860	0.920	V	I==1.0A
Reverse current	l <sub>R</sub>	1.2	10	μΑ	V <sub>R</sub> =200V
Reverse recovery time	trr	9	20	nS	I==0.5A
					I <sub>R</sub> =1.0A
					Irr=0.25×IR

# ●Electrical characteristic curves (Ta=25°C)



1000 125°C 125°C 100 150 200 REVERSE VOLTAGE: VR (V)

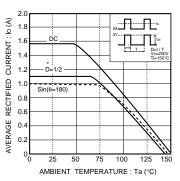
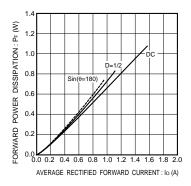
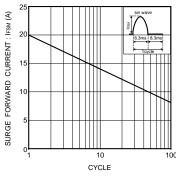


Fig.1 Forward temperature characteristics

Fig.2 Reverse temperature characteristics

Fig.3 Derating curve





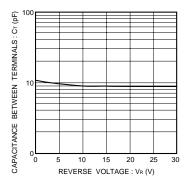


Fig. 4 Power dissipation characteristics

Fig.5 Powerd peak surge current

Fig. 6 Capacirance between terminals characteristics

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Appendix1-Rev1.0