Fast recovery Diode

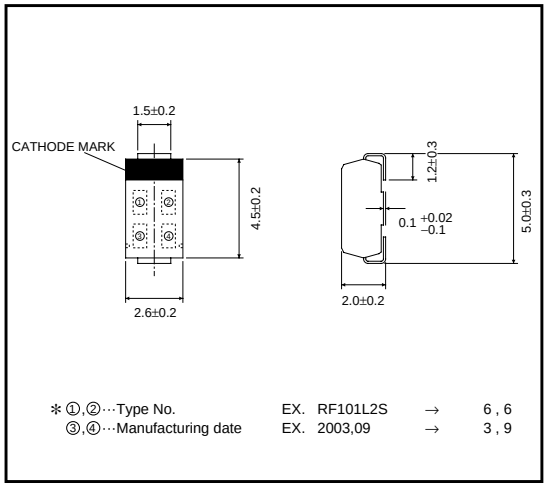
RF103L2S

●**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_{RM}	200	V
Reverse voltage (DC)	V_R	200	V
Average rectified forward current *	I_O	1.0	A
Forward Peak surge current (60Hz・1cyc.)	I_{FSM}	20	A
Junction temperature	Tj	150	°C
Storage temperature	Tstg	−40 to +150	°C

∗ Mounting on glass epoxi board

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

Parameter	Symbol	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	0.860	0.920	V	I_F=1.0A
Reverse current	I_R	1.2	10	μA	V_R=200V
Reverse recovery time	trr	9	20	nS	I_F=0.5A
					I_R=1.0A
					Irr=0.25×IR

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

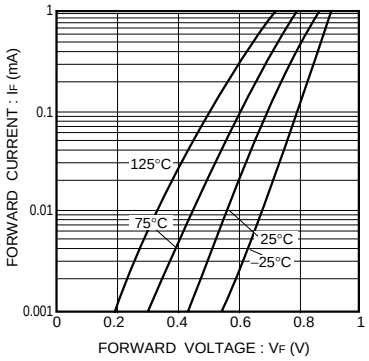


Fig.1 Forward temperature characteristics

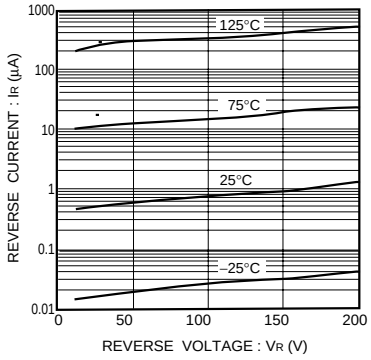


Fig.2 Reverse temperature characteristics

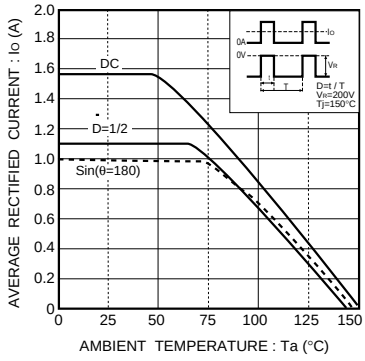


Fig.3 Derating curve

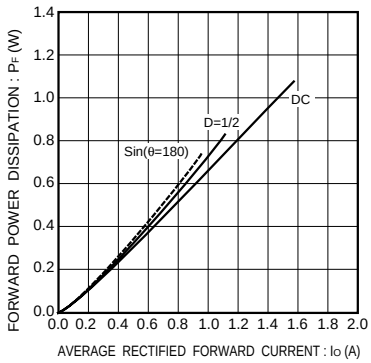


Fig. 4 Power dissipation characteristics

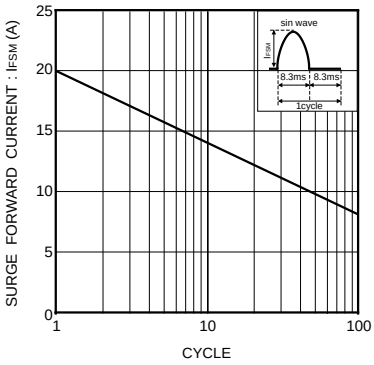


Fig.5 Powerd peak surge current

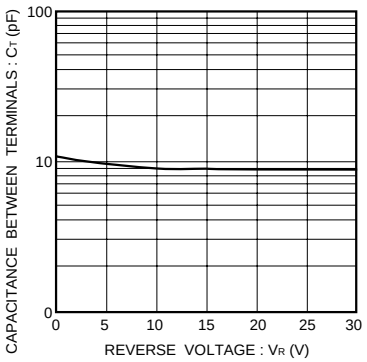


Fig. 6 Capacirance between terminals characteristics

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