Rectifying diode

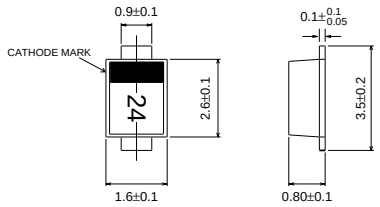
RR264M-400

●**Applications**
General rectification

●**Features**
1) Surface mounting type. (PMDU)
2) Molded type.
3) High reliability.

●**Construction**
Silicon diffused junction

●**External dimensions** (Units : mm)



ROHM : PMDU
EIAJ : –
JEDEC : SOD-123

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

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_R	400	V
Forward current	I_F	1.0	A
Mean rectifying current ∗	I_O	0.7	A
Peak forward surge current	I_{FSM}	25	A
Junction temperature	Tj	150	˚C
Storage temperature	Tstg	−55~+150	˚C

∗1 Mounting on glass epoxy PCBs
∗2 60Hz, 1cyc.

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	–	0.94	1.10	V	I_F=0.7mA
Reverse current	I_R	–	0.03	10	μA	V_R=400V

∗ Please pay attention to static electricity when handling.

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

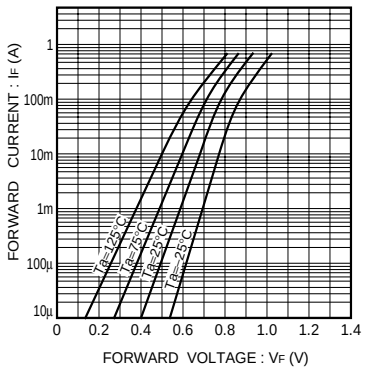


Fig. 1 Forward characteristics

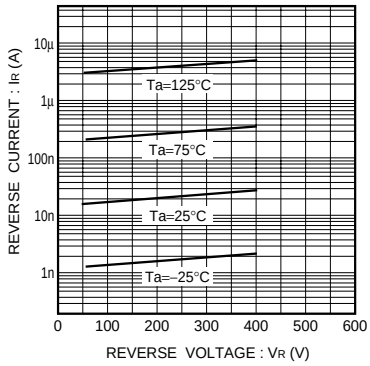


Fig. 2 Reverse characteristics

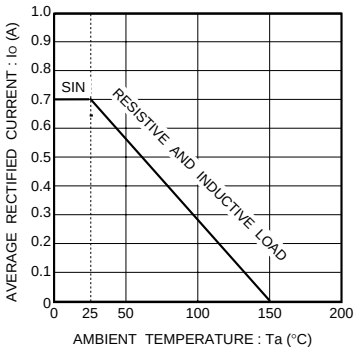


Fig. 3 Mean rectifying current characteristics

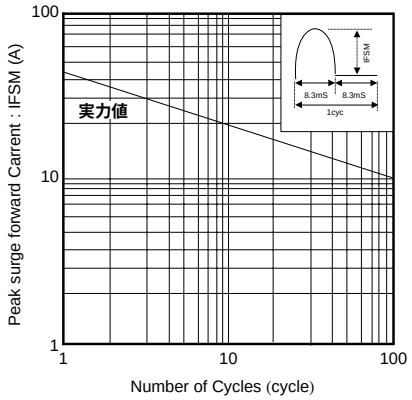


Fig. 4 Surge current characteristic

●**Spice parameter**

	Parameter		Value	Unit
1	IS :	Saturation current	7.19E-10	A
2	N :	Emission coefficient	1.6555	–
3	RS :	Ohmic resistance	0.0497126	Ω
4	TT :	Transit time	7.24E–06	SEC
5	CJO :	Junction capacitance	1.50E–11	F
6	M :	Geading coefficient	0.389542	–
7	VJ :	Junction potential	0.7	V
8	FC :	Depretion cap. Coefficient	0.5	–
9	EG :	Activation energy	1.11	V
10	XTI :	Isat temperature exponent	3	eV
11	KF :	Flicker noise coefficient	–	–
12	AF :	Flicker noise cofficient	–	–
13	BV :	Reverse break down	400	–
14	IBV :	Isat v–breakdown	0.0001	A
15	RL :	Junvtional leakage resistance	1.34E+10	Ω