Fast Recovery Rectifying Diode

SM-1XF08

● **Features**

- Compact body. Minimum mounting pitch 5mm, height 2.4mm.
- Low noise, soft recovery type

.

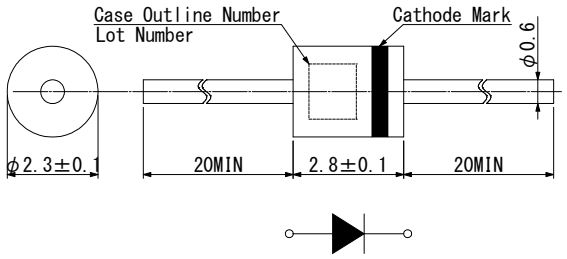
● **Applications**

- Communication equipment.
- TV, VTR, audio, etc.

● **Structures**

- Resin molded, and diffused junction silicon diode.
- Marking symbol : SM-1XF08 : [F8]
- Weight : 0.2g
- Terminal plating : Sn
- Conforms to RoHS regulations

● **Outline Drawing** Unit : mm



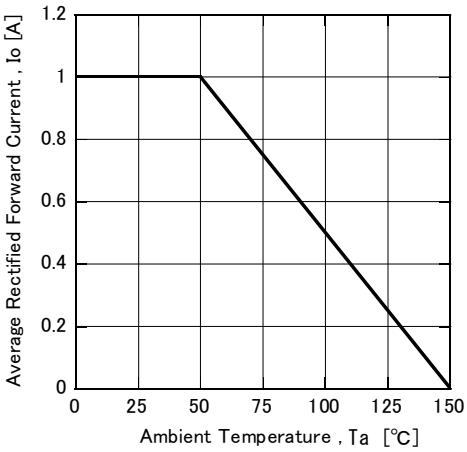
● **Absolute Maximum Ratings**

Items	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RM}	—	800	V
Average Rectified Forward Current	I_O	Ta=50℃,Single phase, Resistive Load	1	A
Peak Forward Surge Current	I_{FSM}	Tj=50℃,50Hz, Single-phase, Half sin wave, Non-Repetitive	35	A
Operating Junction Temperature	T_j	—	-40～+150	℃
Storage Temperature	T_{stg}	—	-40～+150	℃

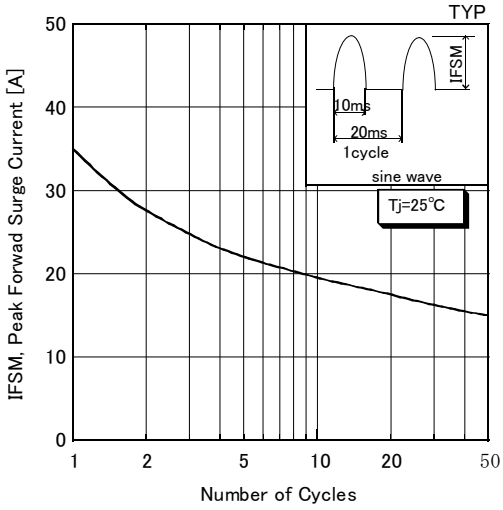
● **Electrical Characteristics (Tj=25℃)**

Items	Symbol	Conditions	MAX.	Unit
Forward Voltage Drop	V_F	I_F=Io	1.1	V
Reverse Leakage Current	I_R	V_R= V_{RM}	10	μA
Reverse Recovery Time	trr	I_F=I_R=0.1A	0.8	μS

● Characteristics Diagrams



AVERAGE RECTIFIED FORWARD CURRENT



MAXIMUM FORWARD SURGE CURRENT