Schottky Barrier Diode

F1AJ4

● **Features**

- Small and thin package
- Various kinds
- Taping capable of high density mounting

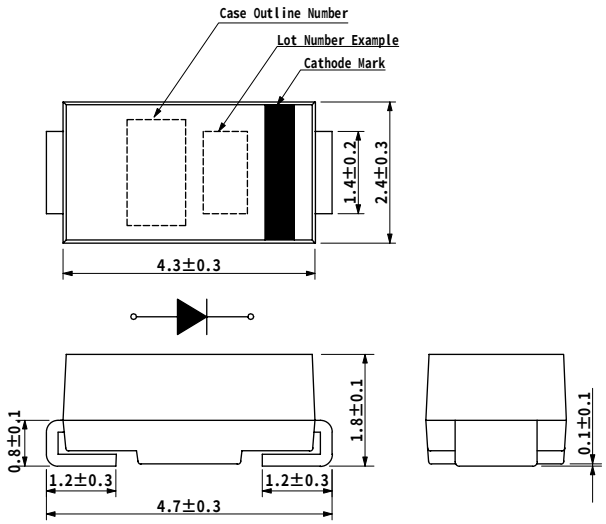
● **Applications**

- HIC
- High-frequency rectification
- Switching regulations
- Mounting for both sides printed circuit board
- Preventing power supply from counter-flowing.
- Avoiding reverse current wrong setting of a battery.

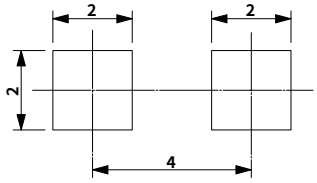
● **Structures**

- Resin molded, and Silicon Schottky Barrier Diode.
- Marking symbol : [AJ4]
- Weight : 0.07g
- Terminal plating : Sn
- Conforms to RoHS regulations

● **Outline Drawing** Unit : mm



● **Recommendation Pattern for Mounting**



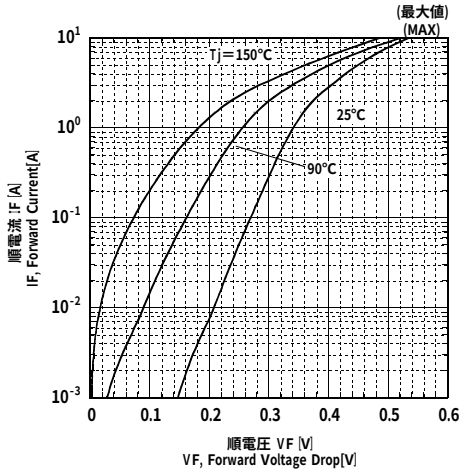
● **Absolute Maximum Ratings (Ta=25°C)**

Items	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RM}		40	V
Non-Repetitive Peak Reverse Voltage	V_{RSM}		45	V
Average Rectified Forward Current	I_O	Ta=25°C, DC	3	A
Peak Forward Surge Current	I_{FSM}	Tj=25°C, 50Hz, Single-phase, Half sin wave, Non-Repetitive	55	A
Operating Junction Temperature	T_j		-40～+150	°C
Storage Temperature	T_{stg}		-40～+150	°C

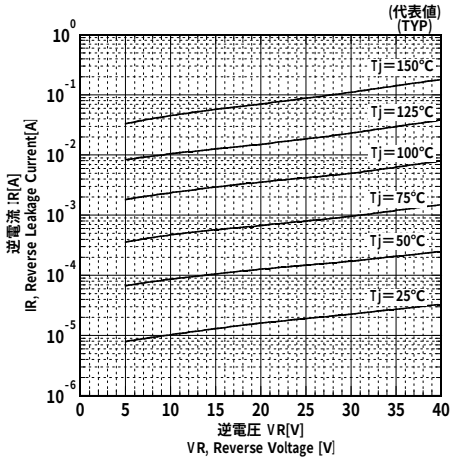
● **Electrical Characteristics (Tj=25°C)**

Items	Symbol	Conditions	TYP.	MAX.	Unit
Forward Voltage Drop	V_F	I_F=3A	0.40	0.44	V
Reverse Leakage Current	I_R	V_R=40V	-	1	mA
Junction Capacitance	Cj	V_R=10V	160	-	pF
Terminal resistance (Junction to ambient)	$R_{th(j-a)}$	Glass Epoxy mounted. (PC board size : 20mm×20mm , Cu land size : 4mm×4mm)	145	-	°C/W

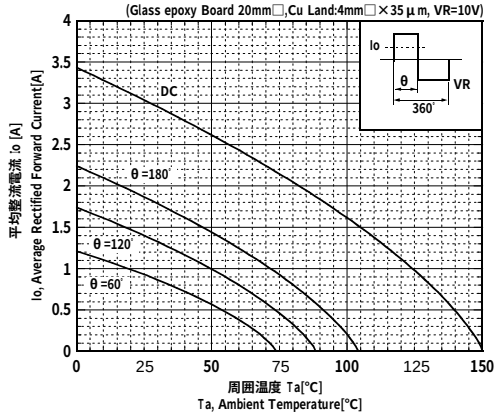
● Characteristics Diagrams



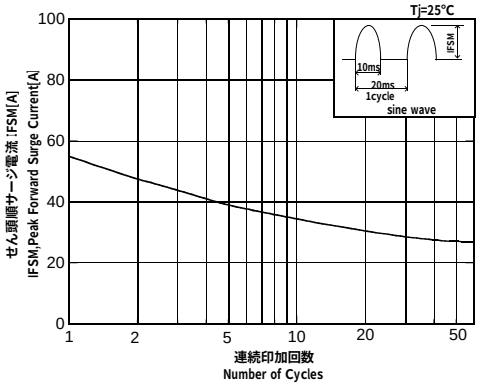
FORWARD CHARACTERISTICS



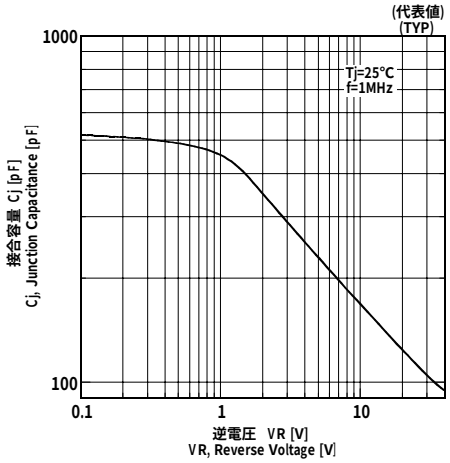
REVERSE CHARACTERISTICS



AVERAGE RECTIFIED FORWARD CURRENT



MAXIMUM FORWARD SURGE CURRENT CAPABILITY



TYPICAL JUNCTION CAPACITANCE