

# Schottky Barrier Diode

## FS1J4

### Features

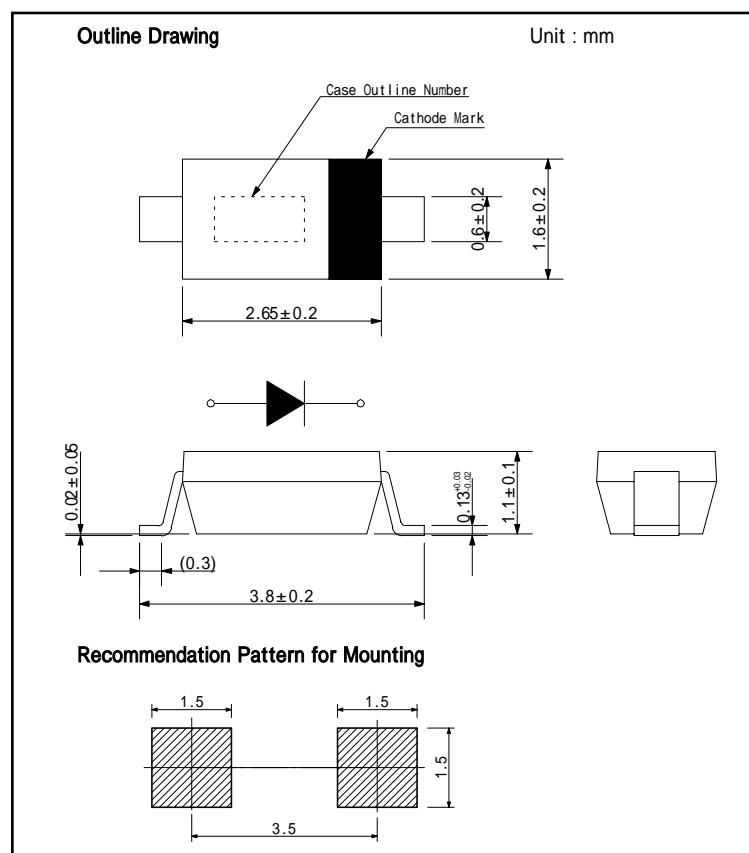
- Super Small size
- Various kinds
- Taping capable of high density mounting

### Applications

- Small size power supplies
- OR diode : Preventing from reverse current by Wrong setting of a battery

### Structures

- Marking symbol : [ KC ]
- Weight : 11mg
- Terminal plating : Sn-3Cu
- Conforms to RoHS regulations



### Absolute Maximum Ratings (Ta=25 °C)

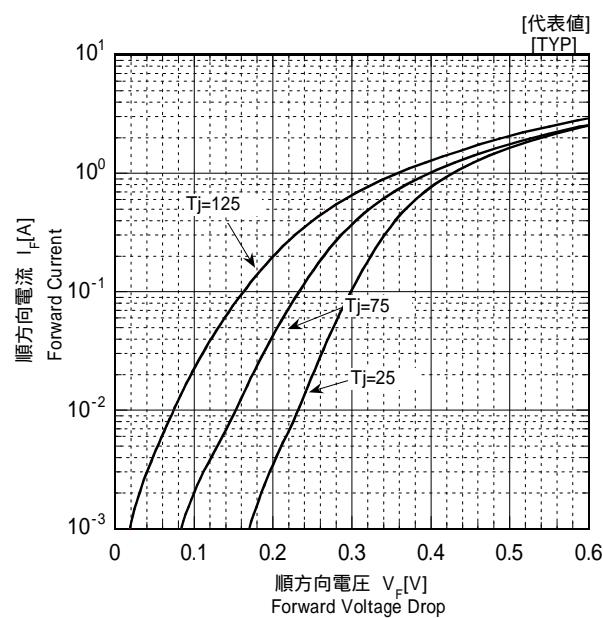
Items	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RM</sub>		40	V
Non-Repetitive Peak Reverse Voltage	V <sub>RSM</sub>		45	V
Average Rectified Forward Current	I <sub>O</sub>	Ta=25 °C, Half sin wave 180 ° R-Load	1	A
Peak Forward Surge Current	I <sub>FSM</sub>	Tj=25 °C, 50Hz, Single-phase, Half sin wave, Non-Repetitive	10	A
Operating Junction Temperature	T <sub>j</sub>		+150	
Storage Temperature	T <sub>stg</sub>		-40 ~ +150	

### Electrical Characteristics (Tj=25 °C)

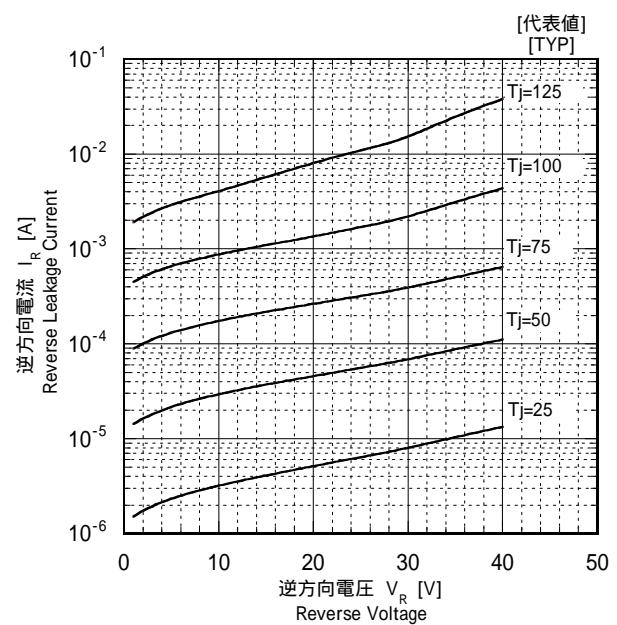
Items	Symbol	Conditions	TYP.	MAX.	Unit
Forward Voltage Drop	V <sub>F1</sub>	I <sub>F</sub> =0.5A	0.37	0.41	V
	V <sub>F2</sub>	I <sub>F</sub> =1.0A	0.43	-	mV
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =40V	-	0.1	mA
Terminal Capacitance	C <sub>j</sub>	V <sub>R</sub> =10V, f=1MHz	50	-	pF
Junction to Ambient	R <sub>th(j-a)</sub>	Junction to Ambient, Glass Epoxy Substrate mounted ( )	-	280	/W

( )Glass Epoxy mounted. (PC board size : 20mm × 20mm, Cu land size : 4mm × 4mm)

## Characteristics Diagrams



FORWARD CHARACTERISTICS



REVERSE CHARACTERISTICS