

## Schottky Barrier Diode

## FS1J3

## Features

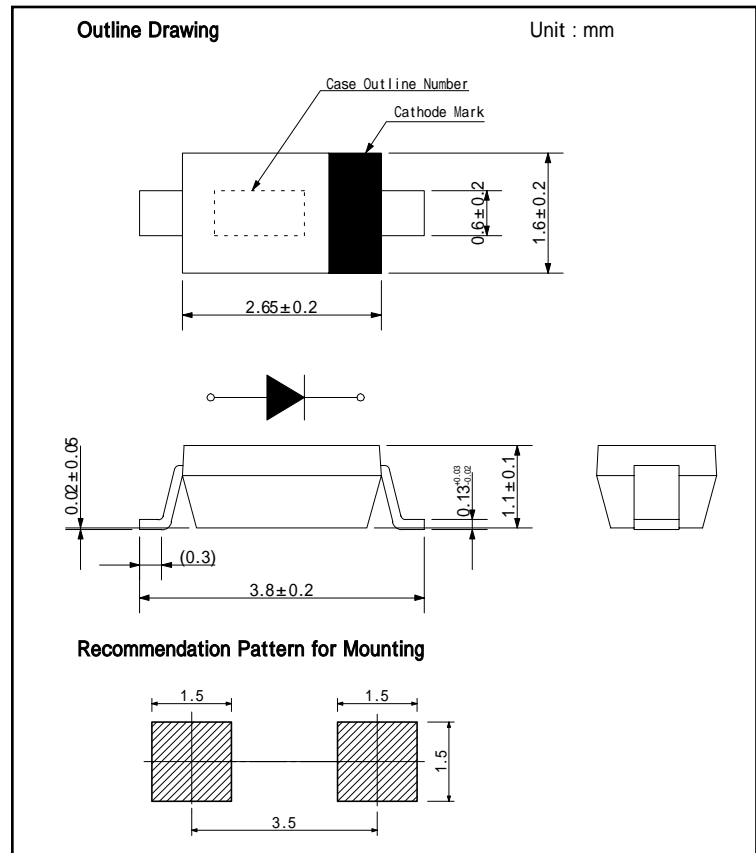
- Super Small size
- Various kinds
- Taping capable of high density mounting

## Applications

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

## Structures

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



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

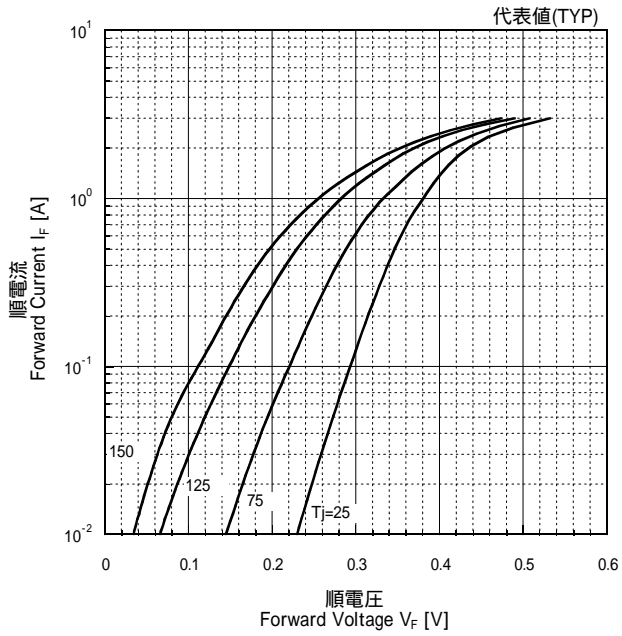
Items	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	$V_{RM}$		30	V
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$		32	V
Average Rectified Forward Current	$I_O$	Ta=25 °C, Half sin wave 180 °, R-Load	1	A
Peak Forward Surge Current	$I_{FSM}$	Tj=25 °C, 50Hz, Single-phase, Half sin wave, Non-Repetitive	10	A
Operating Junction Temperature	$T_J$		-40 ~ +150	
Storage Temperature	$T_{stg}$		-40 ~ +150	

## Electrical Characteristics (Tj=25 °C)

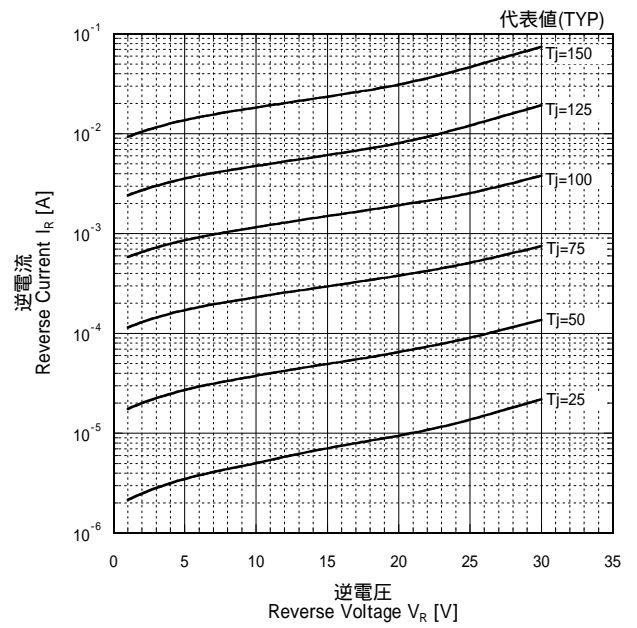
Items	Symbol	Conditions	TYP.	MAX.	Unit
Forward Voltage Drop	$V_{F1}$	$I_F=0.5A$	0.35	0.38	V
	$V_{F2}$	$I_F=1.0A$	0.38	0.42	mV
Reverse Current	$I_R$	$V_R=30V$	-	0.1	mA
Terminal Capacitance	$C_T$	$V_R=10V, f=1MHz$	60	-	pF
Thermal resistance	Rth(j-a)	Junction to Ambient, Glass Epoxy Substrate mounted ( )	-	280	/W

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

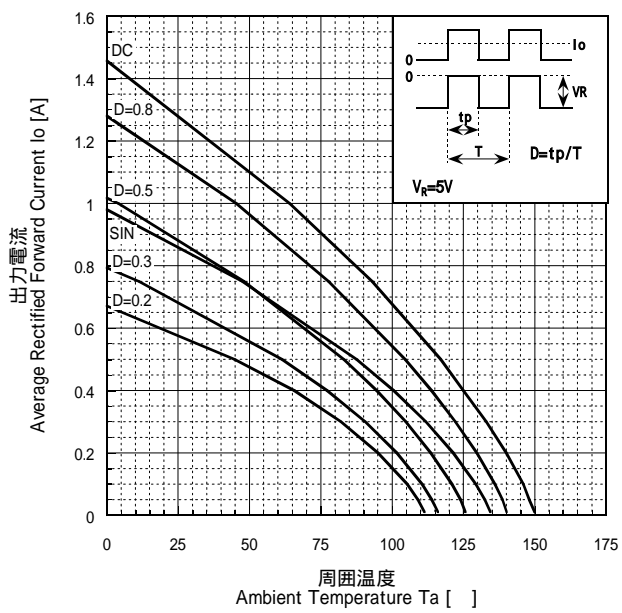
Characteristics Diagrams



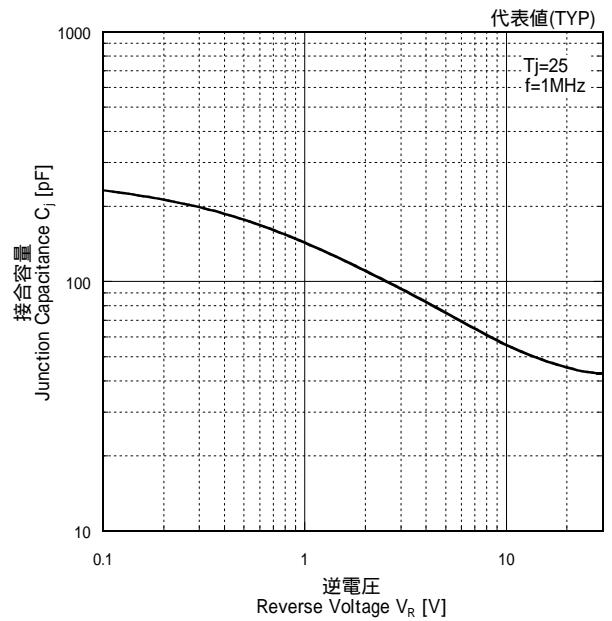
FORWARD CHARACTERISTICS



REVERSE CHARACTERISTICS



AVERAGE RECTIFIED FORWARD CURRENT



TYPICAL JUNCTION CAPACITANCE