

Schottky Barrier Diode

FS05J10

Features

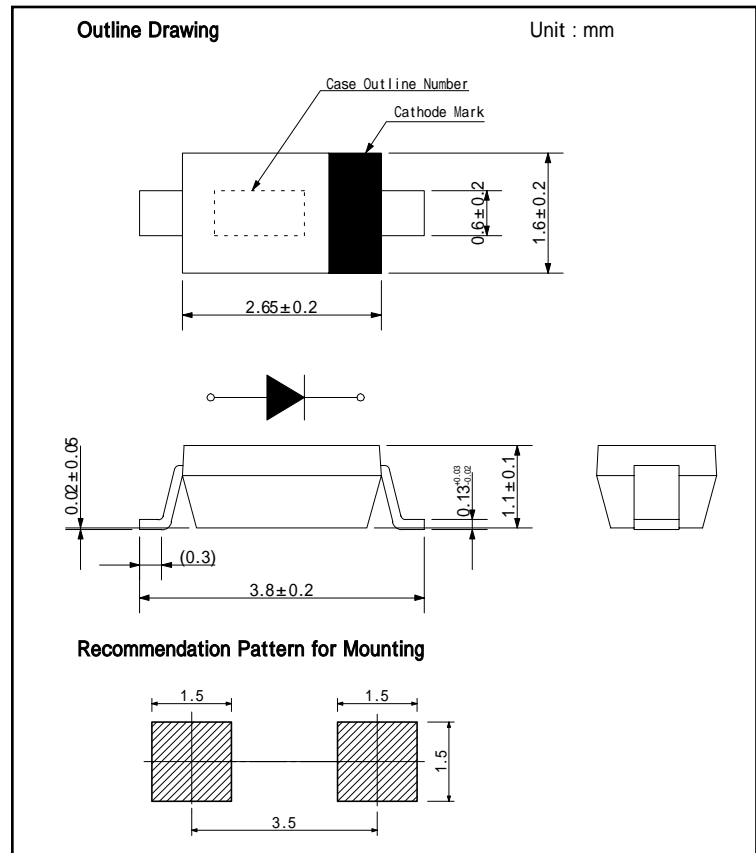
- Super Small size
- Various kinds
- Taping capable of high density mounting

Applications

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

Structures

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

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

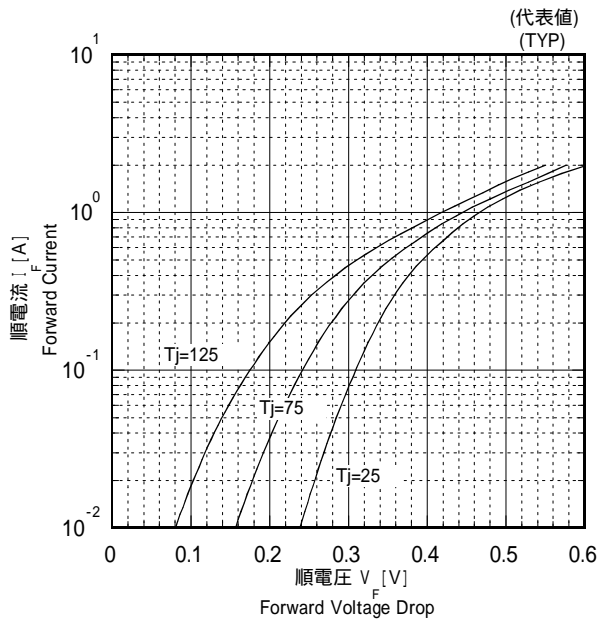
Items	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RM}		100	V
Average Rectified Forward Current	I_O	Ta=25 °C, Half sin wave 180 °, R-Load	0.5	A
Peak Forward Surge Current	I_{FSM}	Tj=25 °C, 50Hz, Single-phase, Half sin wave, Non-Repetitive	10	A
Operating Junction Temperature	T_j		+125	
Storage Temperature	T_{stg}		-40 ~ +125	

Electrical Characteristics (Tj=25 °C)

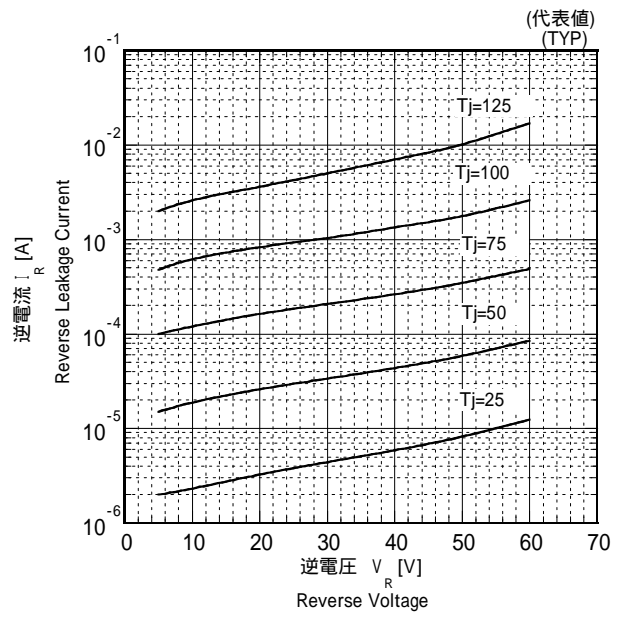
Items	Symbol	Conditions	TYP.	MAX.	Unit
Forward Voltage Drop	V_{F1}	$I_F=0.3A$	0.43	0.50	V
	V_{F2}	$I_F=0.5A$	0.50	-	mV
Reverse Current	I_R	$V_R=60V$	-	0.5	mA
Terminal Capacitance	C_T	$V_R=10V, f=1MHz$	30	-	pF
Thermal resistance	Rth(j-a)	Junction to Ambient, Glass Epoxy Substrate mounted ()	-	280	/W

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

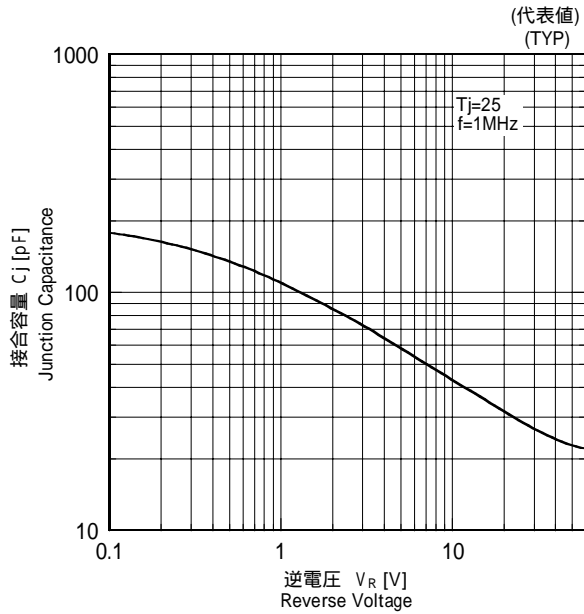
Characteristics Diagrams



FORWARD CHARACTERISTICS



REVERSE CHARACTERISTICS



TYPICAL JUNCTION CAPACITANCE