

Schottky Barrier Diode

F05J4L

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Features

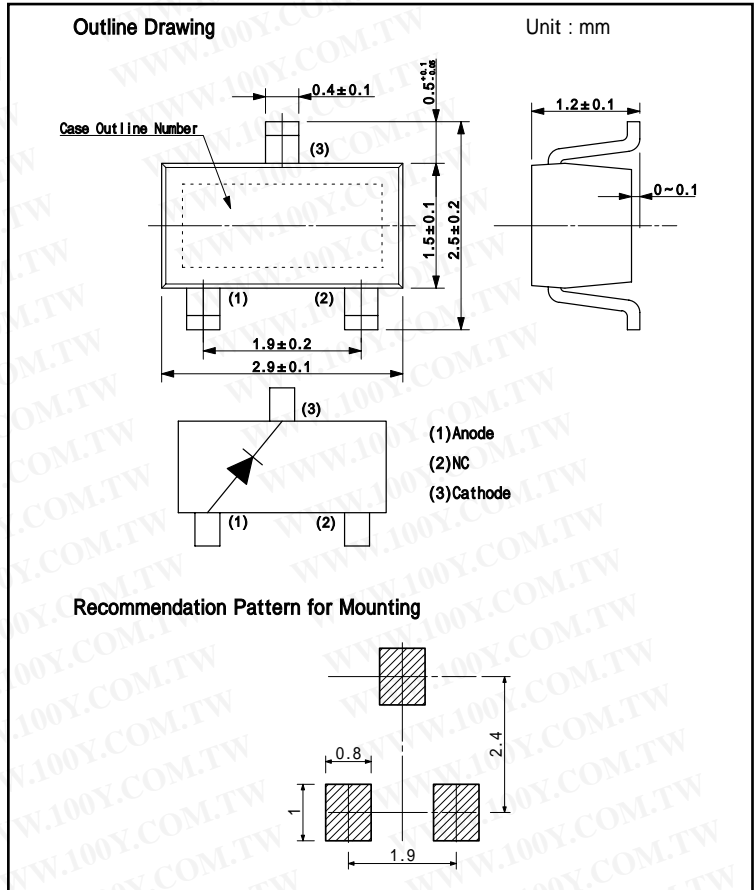
- Small package
- Various kinds
- Taping capable of high density mounting

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 : [ECS]
- Terminal plating : Sn
- Conforms to RoHS regulations



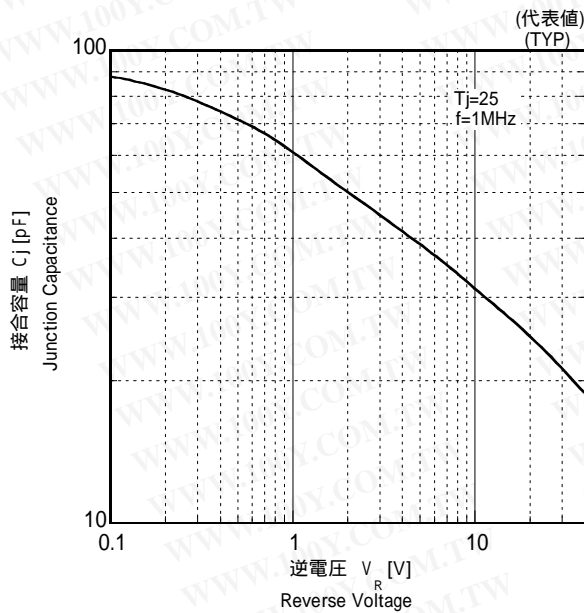
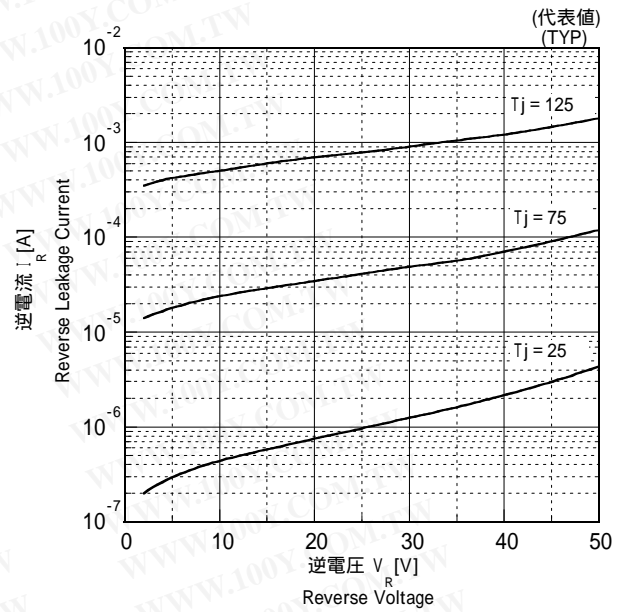
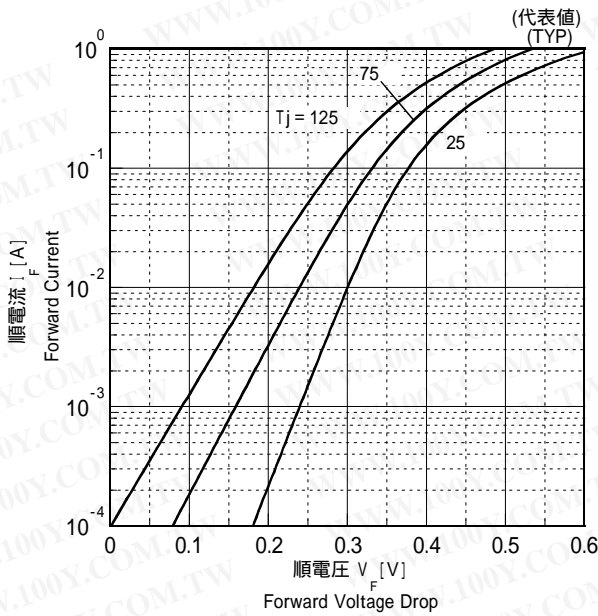
Absolute Maximum Ratings

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 , Half sin wave 180 ° ,Resistive Load	500	mA
Peak Forward Surge Current	I_{FSM}	Tj=25 , 50Hz, Single-phase, Half sin wave, Non-Repetitive	5	A
Operating Junction Temperature	T_j		+125	
Storage Temperature	T_{stg}		-40 ~ +125	

Electrical Characteristics (Tj=25)

Items	Symbol	Conditions	TYP.	MAX.	Unit
Forward Voltage Drop	V_{F1}	$I_F=5mA$	280	-	mV
	V_{F2}	$I_F=50mA$	350	-	mV
	V_{F3}	$I_F=500mA$	510	600	mV
Reverse Leakage Current	I_{R1}	$V_R=10V$	0.5	-	μA
	I_{R2}	$V_R=40V$	-	25	μA
Junction Capacitance	C_j	$V_R=10V, f=1MHz$	40	-	pF
Thermal resistance	Rth(j-a)	Glass Epoxy Substrate(PC board size 20mm,Cu land size 2mm)	-	300	/W

Characteristics Diagrams



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