

Schottky Barrier Diode

FQ1JP4L

Features

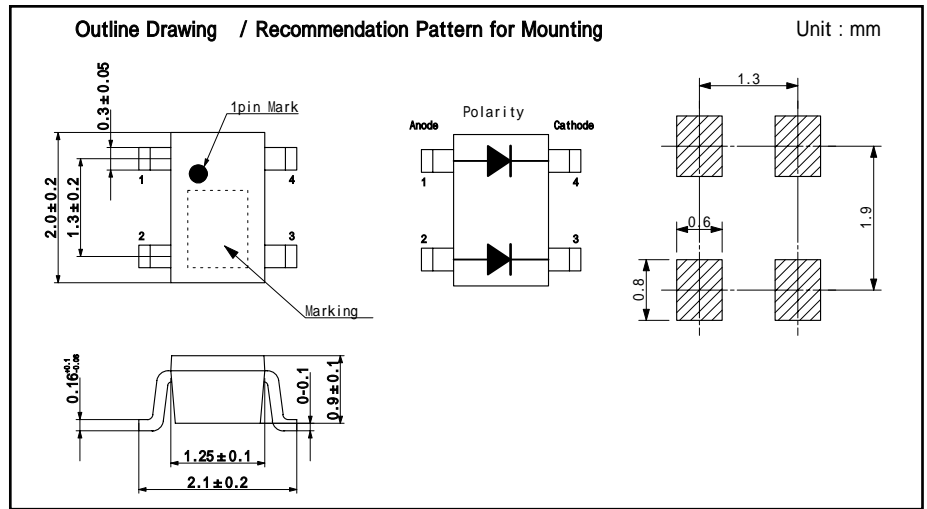
- Four or eight terminals for high density mounting.
- Low VF , Low IR and 100V

Applications

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

Structures

- Marking symbol : [CP]
- Weight : 6mg
- Terminal plating : Sn-2Bi
- Conforms to RoHS regulations



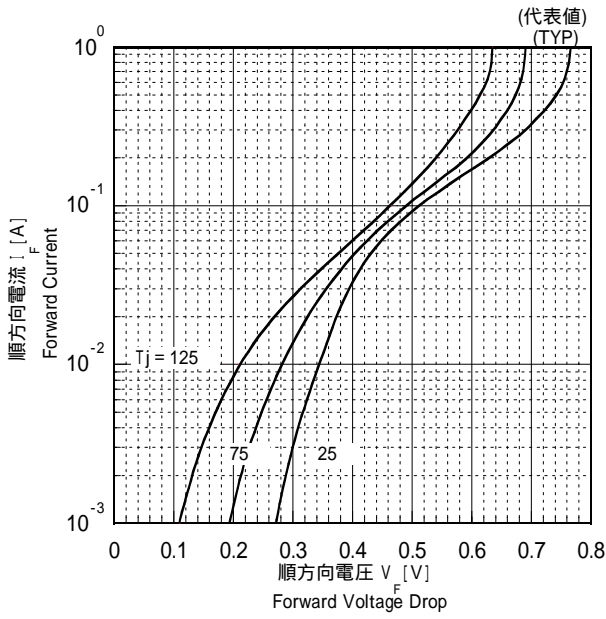
Absolute Maximum Ratings (Ta=25)

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 , 50Hz Half sin wave 180 ° R-Load, 2 diodes active , maximum current (100mA per leg)	100	mA
Peak Forward Surge Current	I_{FSM}	Tj=25 , 50Hz, Single-phase, Half sin wave, Non-Repetitive	1	A
Operating Junction Temperature	T_j		-40 ~ +125	
Storage Temperature	T_{stg}		-40 ~ +150	

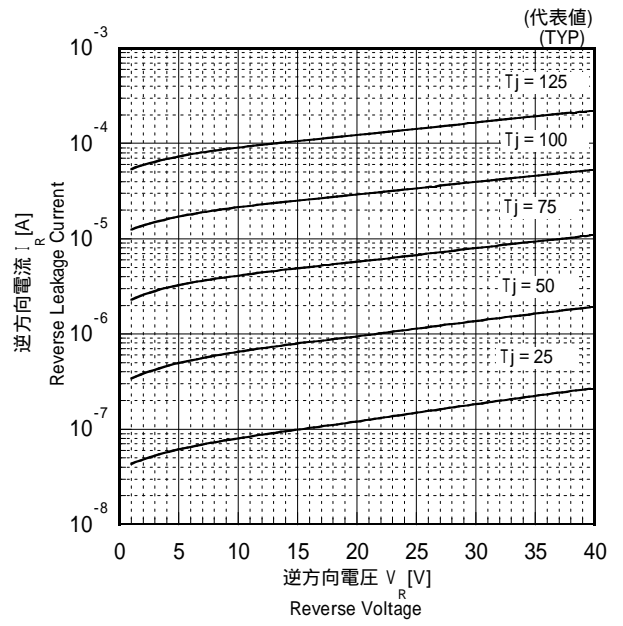
Electrical Characteristics (Tj=25)

Items	Symbol	Conditions	TYP.	MAX.	Unit
Forward Voltage Drop	V_{F1}	$I_f=1mA$	0.28	-	V
	V_{F2}	$I_f=10mA$	0.35	-	V
	V_{F3}	$I_f=100mA$	0.51	0.60	V
Reverse Current	I_{R1}	$V_R=10V$	0.09	0.5	μA
	I_{R2}	$V_R=40V$	-	5.0	μA
Terminal Capacitance	C_j	$V_R=10V, f=1MHz$	8.0	-	pF
Thermal resistance (junction to ambient)	Rth(j-a)	2 diode active, Glass Epoxy Substrate mounted, PC board size : 20 x 20mm, Cu land size : 4 x 4mm	-	400	/W

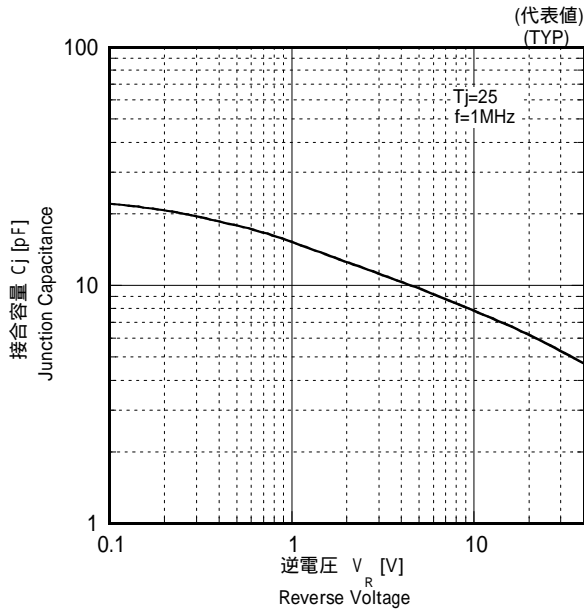
Characteristics Diagrams



FORWARD CHARACTERISTICS



REVERSE CHARACTERISTICS



TYPICAL JUNCTION CAPACITANCE