

General Rectifying Diode

F1N4B

Features

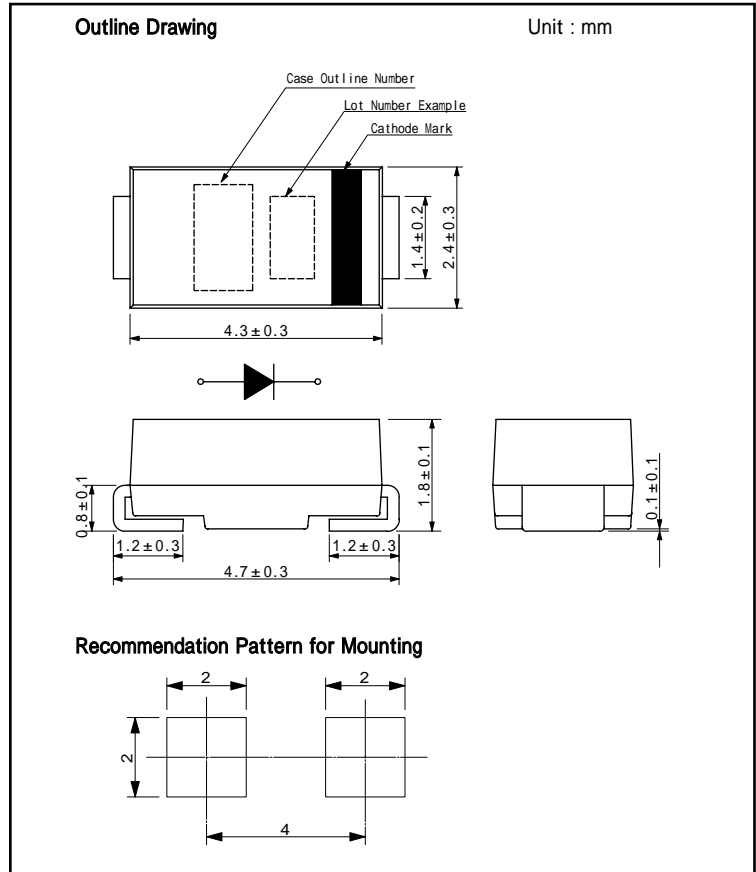
- Small size
- Taping capable of high density mounting

Applications

- HIC
- Mounting for both sides printed circuit board

Structures

- Resin molded, and diffused junction silicon diode.
- Marking symbol : [N4 B]
- Weight : 0.07g
- Terminal plating : Sn
- Conforms to RoHS regulations



Absolute Maximum Ratings

Items	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RM}		400	V
Average Rectified Forward Current	I_O	$T_a=50$, Half sin wave 180° ,Resistive Load	1	A
Peak Forward Surge Current	I_{FSM}	$T_j=50$, Single-phase, Half sin wave, Non-Repetitive	45	A
Operating Junction Temperature	T_j		-40 ~ +150	
Storage Temperature	T_{stg}		-40 ~ +150	

Electrical Characteristics ($T_j=25$)

Items	Symbol	Conditions	TYP.	MAX.	Unit
Forward Voltage Drop	V_F	$I_F=1A$	-	1.0	V
Reverse Current	I_R	$V_R=400V$	-	10	μA
Reverse Recovery Time	trr	$I_F=I_R=100mA$	10	-	μS
		$I_F=I_R=10mA$	18	-	μS

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