MH2206WZ

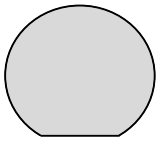
1200V 75A Fast Recovery Diode

Datasheet

V_{RM}	1200V
$I_{F\ (Nominal)}$	75A
$V_{F\ (Typ.)}$	1.65V
Max. Possible Chips per Wafer	394pcs

●Outline

Wafer



●Features

1) Light Punch Through Type

2) Low Forward Voltage

3) Very Fast & Soft Recovery

4) Low Recovery Loss

●Inner Circuit

(1) Anode
(2) Cathode

●Application

Free Wheeling

for Industrial Use

●Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage, T_j = 25°C	V_{RM}	1200	V
Forward Current	I_F *1	*1)	A
Pulsed Forward Current	I_{FP} *2	225	A
Operating Junction Temperature	T_j	-40 to +175	°C

*1 Depending on thermal properties of assembly

*2 Pulse width limited by $T_{jmax.}$

●Electrical Characteristics (at T_j = 25°C unless otherwise specified)

Parameter	Symbol	Conditions	Values			Unit
			Min.	Typ.	Max.	
Breakdown Voltage	BV	I_R = 10μA	1200	-	-	V
Reverse Current	I_R	V_R = 1200V	-	-	10	μA
Forward Voltage	V_F *3	I_F = 75A, T_j = 25°C	-	1.65	2.1	V
		T_j = 175°C	-	1.85	-	

*3 Design assurance without measurement

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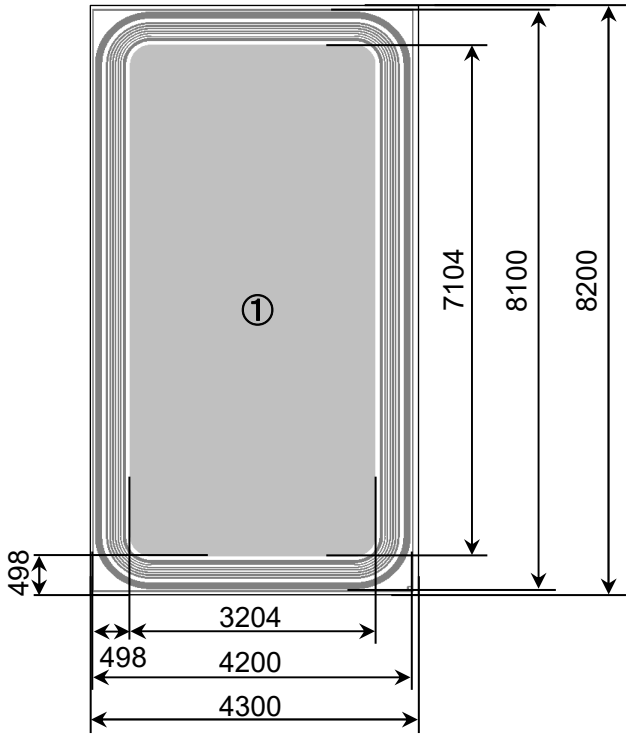
●Chip Information

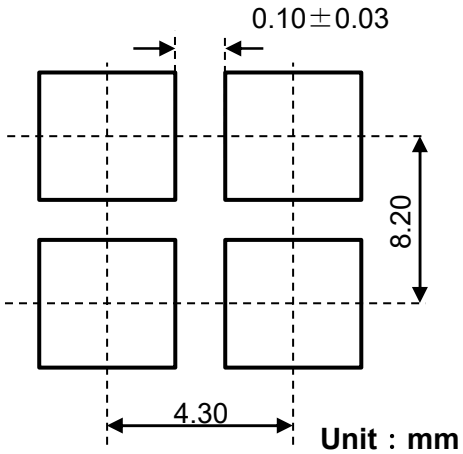


Unit : μm

: Pad Area

① : Anode Bonding Pad

Backside : Cathode



Unit : mm

Wafer Size	150mm
Wafer Thickness	0.12±0.01mm
Chip Size	4.30mm×8.20mm
Cut Line Width	0.10±0.03mm
Top Side Metallization	AlSiCu:5.0μm
Back Side Metallization	Ti/Ni:0.4μm/Au:0.05μm
Passivation	Polyimide

●Further Electrical Characteristics

Switching characteristics and thermal properties are depending strongly on module design and mounting technology and can therefore not be specified for a bare die.

This chip data sheet refers to the device data sheet	-

Technology qualified in TO-247N package.

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