MH2204WZ

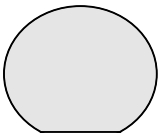
1200V 40A Fast Recovery Diode

Datasheet

V_{RM}	1200V
$I_{F\ (Nominal)}$	40A
$V_{F\ (Typ.)}$	1.65V
Max. Possible Chips per Wafer	676pcs

●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

●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	120	A
Operating Junction Temperature	T_j	-40 to +175	°C

*1 Depending on thermal properties of assembly

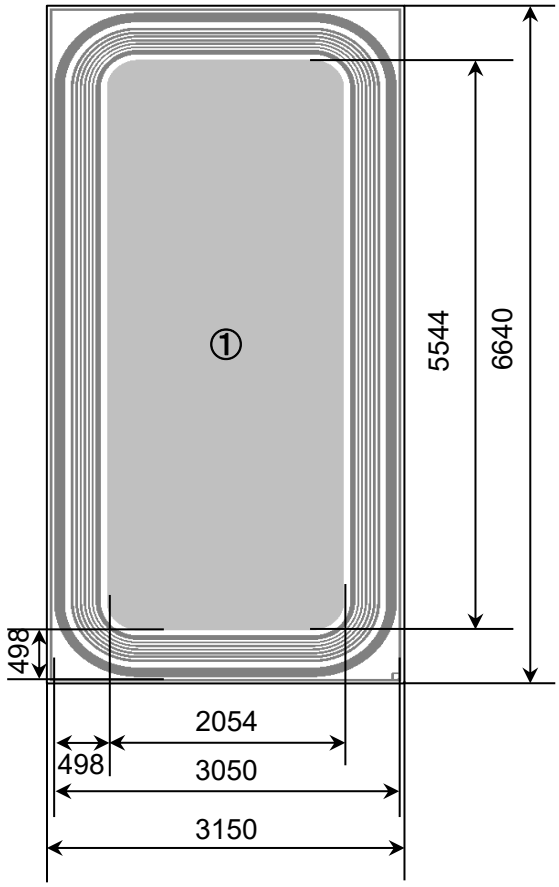
*2 Pulse width limited by $T_{jmax.}$

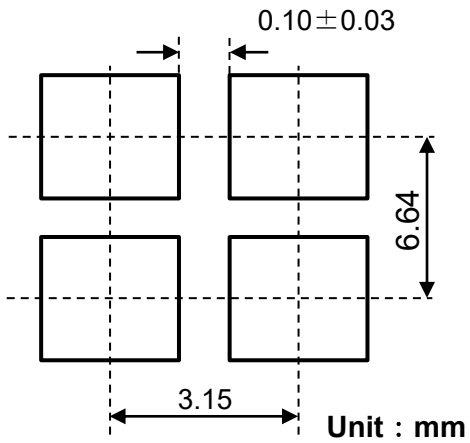
●Electrical Characteristics (at T_j = 25°C unless otherwise specified, in case of TO-247N package)

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 = 40A, T_j = 25°C	-	1.65	2.1	V
		T_j = 175°C	-	1.85	-	

*3 Design assurance without measurement

●Chip Information





Unit : mm

Unit : μm

: Pad Area

① : Anode Bonding Pad

Backside : Cathode

Wafer Size	150mm
Wafer Thickness	0.12±0.01mm
Chip Size	3.15mm×6.64mm
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	RGS80TSX2D

Notes

1) The information contained herein is subject to change without notice.

2) Before you use our Products, please contact our sales representative and verify the latest specifications :

3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors.
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