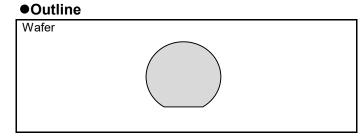
MH2205WZ

1200V 50A Fast Recovery Diode

Datasheet

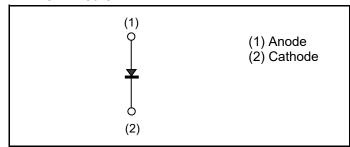
V_{RM}	1200V
I _{F (Nominal)}	50A
$V_{F (Typ.)}$	1.65V
Max. Possible Chips per Wafer	558pcs



Features

- 1) Light Punch Through Type
- 2) Low Forward Voltage
- 3) Very Fast & Soft Recovery
- 4) Low Recovery Loss

●Inner Circuit



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)	А
Pulsed Forward Current	I _{FP} *2	150	А
Operating Junction Temperature	T _j	-40 to +175	°C

^{*1} Depending on thermal properties of assembly

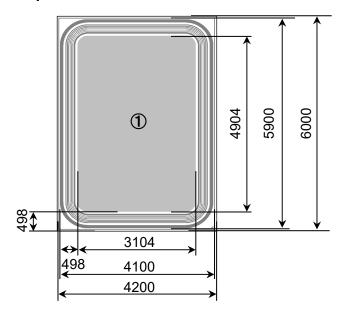
• Electrical Characteristics (at T_i = 25°C unless otherwise specified)

Parameter	Symbol	Conditions	Values			Unit
			Min.	Тур.	Max.	Offic
Breakdown Voltage	BV	I _R = 10μA	1200	ı	ı	V
Reverse Current	I _R	V _R = 1200V	1	1	10	μΑ
		$I_{F} = 50A,$				
Forward Voltage	V_F^{*3}	$I_F = 50A,$ $T_j = 25^{\circ}C$ $T_j = 175^{\circ}C$	-	1.65	2.1	V
		T _j = 175°C	-	1.85	-	

^{*3} Design assurance without measurement

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

●Chip Information

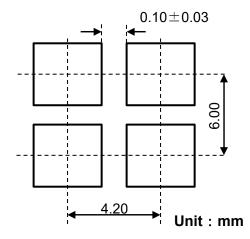


Unit: µm

: Pad Area

1 : Anode Bonding Pad

Backside: Cathode



Wafer Size	150mm
Wafer Thickness	0.12±0.01mm
Chip Size	4.20mm×6.00mm
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	-
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Technology qualified in TO-247N package.

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