Diode Module

Features

- A package of series of two diodes
- With high thermal conductivity DBC as the Insulation
- Welding by vacuum welding technology, which provide high reliability

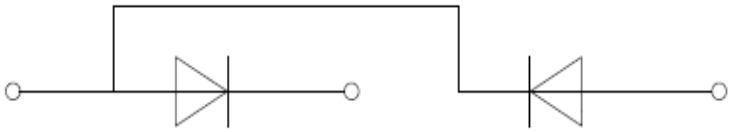
Product Summary

Parameter	Value	Unit
V_{RRM}	1600	V
$I_{F(AV)}$(@ T_C = 100)	300	A
I_{FSM}(@ t_P = 10ms)	11000	A
V_F(Max)	1.60	V

Applications

- AC converter
- Inverter
- DC motor





Absolute Maximum Ratings (@ T_C = 25°C unless otherwise specified)

Parameter	Conditions	Symbol	Values	Unit
Repetitive peak reverse voltage	Tvj = 25°C	V_{RRM}	1600	V
Non-repetitive peak reverse voltage	Tvj = 25°C	V_{RSM}	1700	V
Average forward current	T_C = 100°C	$I_{F(AV)}$	300	A
Forward surge current	1/2 cycle, Sine wave, 50Hz Tvj = 25	I_{FSM}	11000	A
I^2t value for fusing		I^2t	605000	A^2s
RMS isolation voltage	A.C 50Hz(1s/1min)	V_{ISO}	3600/3000	V
Junction temperature range		T_J	-40 ~ +150	
Storage temperature range		T_{stg}	-40 ~ +125	

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Electrical Characteristics (@ T_C = 25°C unless otherwise specified)

Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Peak forward voltage	I_F=900A, t_P=380μs	V_F			1.60	V
Reverse leakage current	$V_R = V_{RRM}$,T_{vj} = 25	I_{RRM}			100	μA
	$V_R = V_{RRM}$,T_{vj} = 150				90	mA
Threshold voltage	T_{vj} = 150 , for power loss calculation only	V_{TO}			0.8	V
Dynamic resistance		r_T			0.75	mΩ

Thermal Characteristics (@ T_C

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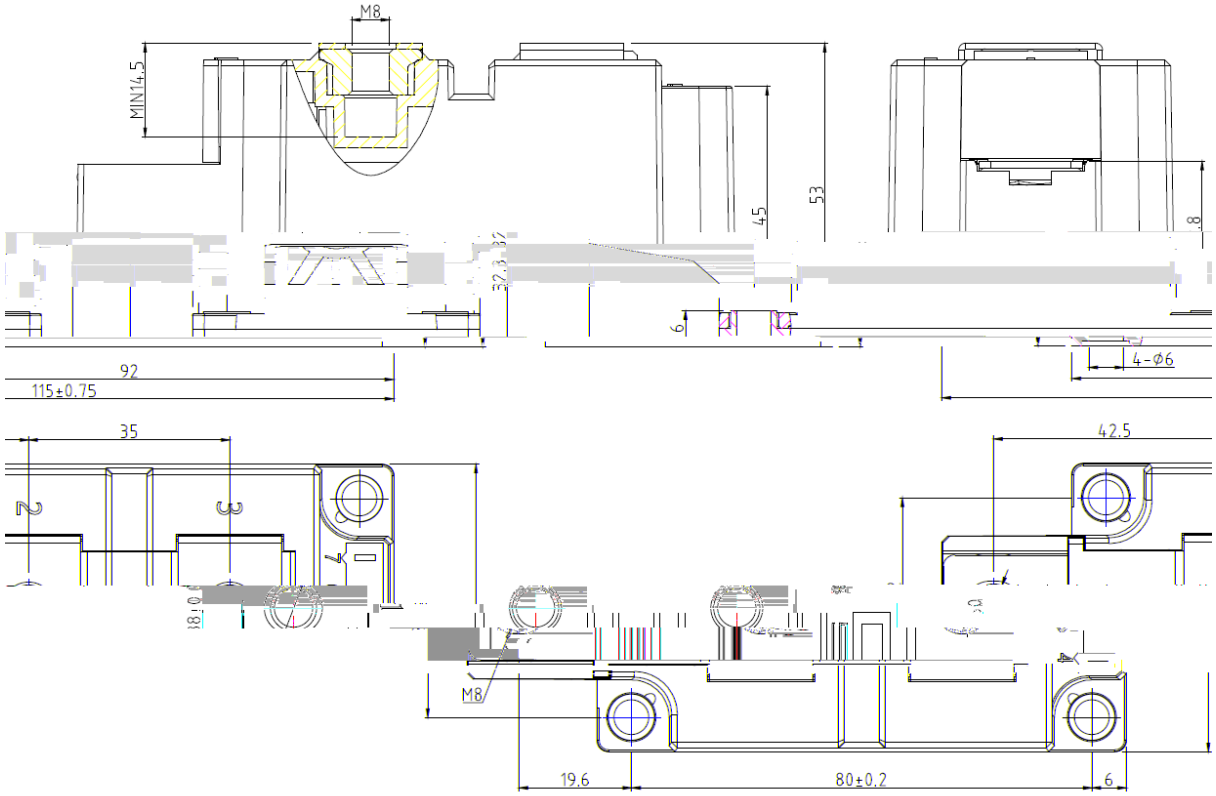
Package Outlines (mm)



Unit of measurement: mm

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