

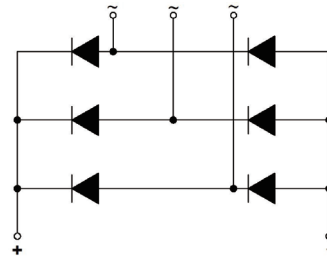
### MDS350-16

#### Features:

- International standard package
- Low forward voltage drop
- Isolation voltage 2500V~

#### Applications:

- DC power suppliers for apparatus device
- Input rectifying power supply for PWM converters
- Inverter welders



#### Maximum rating $T_c=25^{\circ}\text{C}$

Symbol	Definition	Test Conditions	Max Ratings	Unit
VRRM	Repetitive peak voltage	IRRM=0.5mA	1600	V
Id		$T_c=100^{\circ}\text{C}$	350	A
IFSM	Surge on-state current	1/2cycling, 50Hz,sin	2540	A
I <sup>2</sup> t	Value for fusing	1/2cycling, 50Hz,sin	32200	A <sup>2</sup> S
T <sub>j</sub>	Junction temperature		-40 to +150	°C
TSTG	Storage temperature		-40 to +125	°C
VISO	Insulation voltage	t=1min, IISO≤1mA	2500	V

#### Electrical and thermal characteristics

Symbol	Definition	Test Conditions	Min	Type	Max	Unit
IRRM	Repetitive peak current	at V <sub>R</sub> , T <sub>j</sub> =150°C	---	---	10	mA
V <sub>FM</sub>	Peak on-state voltage	I <sub>FM</sub> =200A, T <sub>j</sub> =25°C	---	---	1.5	V
R <sub>th</sub> [c-h]	Case to heatsink	per module	---	---	0.05	°C/W
R <sub>th</sub> [j-c]	Junction to case	per module	---	---	0.061	°C/W
		per chip	---	---	0.367	°C/W

#### Mechanical installation rating

Symbol	Definition	Test Conditions	Min	Type	Max	Unit
	Module and heat dissipation of the fixed torque	M6	4.5	5	5.5	N•m
	Electrode connection with a fixed torque	M8	8	9	10	N•m
	Electrode connection with a fixed torque	M6	4.5	5	5.5	N•m

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Outline (mm)

