

# **Diode Rectifier Modules**

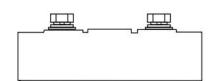
#### **FEATURES**

- Reduced RFI and EMI
- · Reduced Snubbing
- Extensive Characterization of Recovery Parameters
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



### **APPLICATIONS**

 These devices are ideally suited for power converters, motors drives and other applications where switching losses are significant portion of the total losses.



## **ABSOLUTE MAXIMUM RATINGS**

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V <sub>R</sub>	Repetitive Peak Reverse Voltage	t <sub>p</sub> =10ms	1200	V
I <sub>F(AV)</sub>	Average Forward Current	Single phase,haif-wave 180° condition,50Hz, T <sub>C</sub> =100°C	171	Α
IFSM	Surge Forward Current	t <sub>p</sub> =10ms, V <sub>R</sub> =V <sub>RRM</sub>	8000	А
l <sup>2</sup> t	I <sup>2</sup> t for fusing	V <sub>R</sub> =0.6V <sub>RRM</sub>	326*10 <sup>3</sup>	A <sup>2</sup> S
V <sub>iso</sub>	Isolated Voltage		2500	V
T <sub>J</sub>	Junction Temperature		-40~125	°C
T <sub>stg</sub>	Storage Temperature Range		-40~125	$^{\circ}$ C

## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case		°C/W

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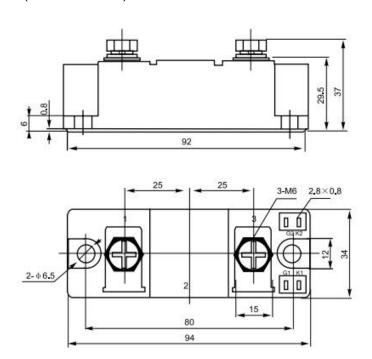
## **Diode Rectifier Modules**

### **ELECTRICAL CHARACTERISTICS**

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>FM</sub>	Forward Voltage drop	I <sub>F</sub> = 500A, T <sub>J</sub> = 125℃	1.26	V
I <sub>R</sub>	Instantaneous Reverse Current	V <sub>R</sub> =V <sub>RRM</sub> , T <sub>J</sub> =125°C	8	mA

## **PACKAGE OUTLINE**

Dimensions in mm (1mm = 0.0394)



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