

ND171N12K

Diode Rectifier Modules

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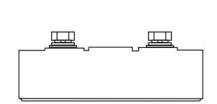
FEATURES

- 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



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SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
VR	Repetitive Peak Reverse Voltage	t _p =10ms	1200	V
I _{F(AV)}	Average Forward Current	Single phase,haif-wave 180° condition,50Hz, T_c=100°C	171	A
IFSM	Surge Forward Current	t _P =10ms, V _R =V _{RRM}	8000	A
l ² t	I ² t for fusing	V _R =0.6V _{RRM}	326*10 ³	A ² S
V _{iso}	Isolated Voltage		2500	V
TJ	Junction Temperature		-40~125	°C
Tstg	Storage Temperature Range		-40~125	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case		°C/W



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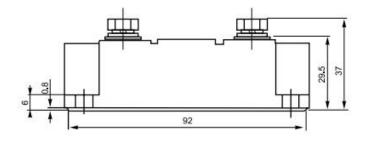
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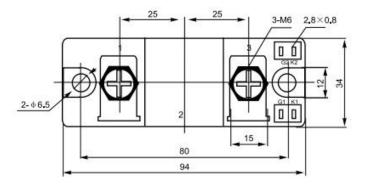
ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
Vfm	Forward Voltage drop	I _F = 500A, T _J = 125℃	1.26	V
I _R	Instantaneous Reverse Current	V _R =V _{RRM} , T _J =125℃	8	mA

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")





NOTICE:

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