

ISSM5016 DSA240X200NA eq

Schottky Diode

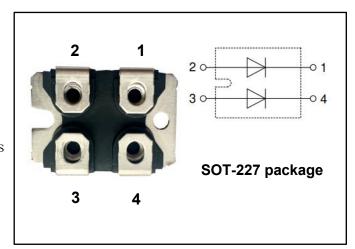
DESCRIPTION

- Very low Vf
- Extremely low switching losses
- Low Irm values
- Improved thermal behaviour
- High reliability circuit operation
- Low voltage peaks for reduced protection circuits
- Low noise switching



APPLICATIONS

- Switch Mode Power Supply (SMPS)
- Free wheeling diode in low voltage converters



ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	VALUE	UNIT
VRRM	Max. repetitive reverse blocking voltage,T _J =25°C	200	V
V _{RMS}	Maximum RMS Voltage	200	V
IFAV	Forward voltage drop rectangular 0.5 T _J =25°C	120	Α
IFSM	Peak forward surge current t = 10 ms; (50 Hz), sine; T = 45°C	1.6	kA
P _D	Total power dissipation	310	W
R _{th j-c}	Thermal Resistance,Junction to Case	0.4	°C/W
TJ	Junction Temperature	-40~150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-40~150	$^{\circ}$ C
V _{iSO}	Isolation voltage A.C. 1 minute	2500	V



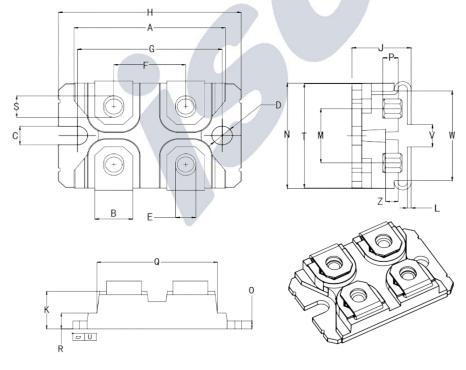
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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
V _F	Forward Voltage drop	I _F =120A; T _J =25°C			1.0	V
		I _F =240A; T _J =25°C			1.26	
VF	Forward Voltage drop	I _F =120A; T _J =125℃			0.87	
		I _F =240A; T _J =125℃			1.17	
I _R	Reverse current	V _R =200V;T _J =25°C			1.5	- mA
		V _R =200V;T _J =125℃			15	

PACKAGE OUTLINE (UNIT: MM):



DIM	Millimeter		
DIM -	min	max	
Α	31.40	31.60	
В	7.70	8.10	
С	4.20	4.40	
D	4.20	4.40	
E	4.10	4.40	
F	14.90	15.10	
G	30.10	30.30	
Н	38.00	38.40	
J	12.00	12.60	
K	9.35	9.65	
L	0.74	0.84	
M	12.30	12.70	
N	24.40	25.00	
0	1.90	2.10	
Р	2.92	3.32	
Q	26.60	27.00	
R	3.80	4.20	
S	4.95	5.45	
Т	23.70 24.30		
U	0 0.10		
٧	3.50	3.50 5.50	
W	20.15	20.45	
Z	2.50	2.70	



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