

Schottky Rectifier

6CWQ10FN

FEATURES

- Low forward voltage drop
- High frequency operation

APPLICATIONS

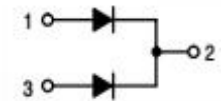
- Disk drives
- Switching power supplies
- Freewheeling diodes
- Converters

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM}	Peak Reverse voltage	100	V
$I_{F(AV)}$	Average Rectified Forward Current	2*3.5	A
I_{FSM}	Single pulse forward current $t_p = 5 \mu\text{s}$ sine	400	A
T_J	Junction Temperature	-40~150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-40~150	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

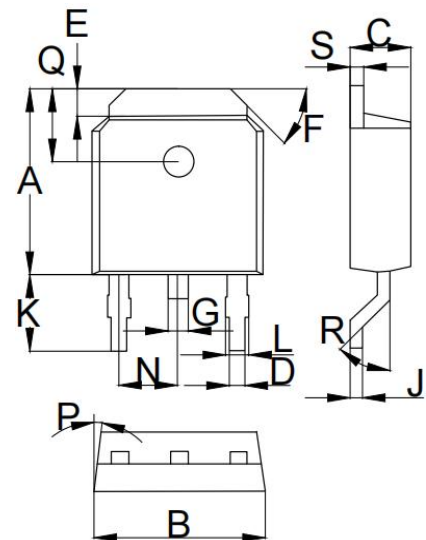
SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case per leg	4.7	$^{\circ}\text{C/W}$



Pin 1: Anode
2: Cathode
3: Anode

DPAK

TO-252 package



DIM	mm		
	MIN	TYP.	MAX
A	6.90	7.10	7.30
B	6.50	6.60	6.70
C	2.20	2.30	2.40
D	0.50	0.60	0.72
E	0.90	1.00	1.10
F	45°		
G	0.70	0.80	0.90
J	0.40	0.50	0.60
K	2.85	3.15	3.50
L	0.70	0.80	0.90
N	2.20	2.28	2.35
P	7°		
Q	2.75	2.80	2.85
R	50°		
S	0.40	0.50	0.60

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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage per leg	$I_F = 3A ; T_J = 25^{\circ}C$	0.81	V
		$I_F = 6A ; T_J = 25^{\circ}C$	0.96	
		$I_F = 3A ; T_J = 125^{\circ}C$	0.63	
		$I_F = 6A ; T_J = 125^{\circ}C$	0.74	
I_R	Maximum Instantaneous Reverse Current per leg	Rated DC Voltage, $T_J = 25^{\circ}C$	1	mA
		Rated DC Voltage, $T_J = 125^{\circ}C$	4.9	mA

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