

Ultrafast Rectifier

30EPH06

FEATURES

- · Ultrafast recovery time
- · Low forward voltage drop
- · Low leakage current

APPLICATIONS

- Switching
- · Inverter and chopper motor drives



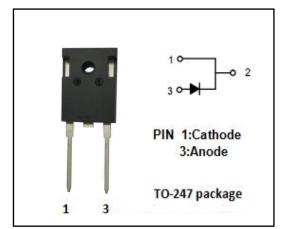
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

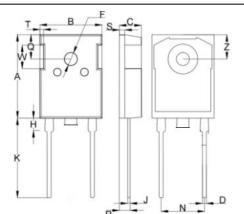
SYMBOL	PARAMETER	VALUE	UNIT
VRRM	Peak Repetitive Reverse Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current	30	А
I _{FSM}	Non-repetitive Peak Surge Current	300	А
TJ	Junction Temperature	-65~175	${\mathbb C}$
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	0.9	°C/W

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DIM	m	m
DIIVI	MIN	MAX
A	19.80	21.50
В	15.40	15.90
C	4.70	5.30
D	0.90	1.26
F	3.50	3.90
Н	3.90	4.10
J	0.500	0.700
K	19.50	20.50
N	10.80	11.00
Q	6.00	6.30
R	2.90	3.30
S	1.80	2.20
T	2.15	2.35
W	4.90	5.10
Z	6.00	6.30



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ELECTRICAL CHARACTERISTICS(T_J = 25 °C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 30A, T _J = 25°C	2.6	V
		I _F = 30A, T _J = 125°C	1.75	
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM}	50	- uA
		V _R = V _{RWM} , T _J = 150 °C	500	
t _{rr}	Maximum Reverse Recovery Time	I _F = 1.0A,dI _F /dt= 50A/μs	35	ns

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