

Hyperfast Rectifier

30ETH06

FEATURES

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

APPLICATIONS

- · PFC boost stage
- · Inverters or as freewheeling diodes



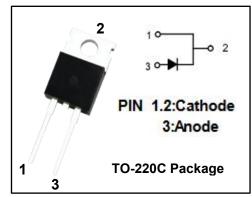
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

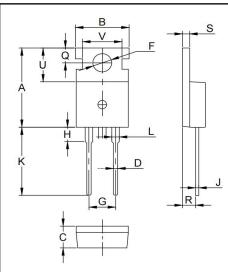
SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current T _c = 103 °C	30	Α
IFSM	Non-repetitive Peak Surge Current	200	Α
TJ	Junction Temperature	-65~175	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.1	°C/W

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DIM	mm		
	MIN	TYP.	MAX
Α	15.50	15.70	15.90
В	9.80	10.00	10.20
С	4.20	4.35	4.50
D	0.70	0.80	0.90
F	3.40	3.55	3.70
G	4.98	5.08	5.18
Н	2.68	2.79	2.90
J	0.44	0.52	0.60
K	12.80	13.10	13.40
L	1.20	1.32	1.45
Q	2.70	2.80	2.90
R	2.30	2.50	2.70
S	1.29	1.32	1.35
U	6.45	6.55	6.65
V	8.66	8.76	8.86



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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	.,,	
		I _F = 30A, T _J = 150°C	1.75	V	
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM}	50	uA	
		V _R = V _{RWM} , T _J = 150 ℃	500		
t _{rr}	Maximum Reverse Recovery Time	$I_F = 1.0A, dI_F/dt = 50A/\mu s$, $V_R = 30 V$	35	ns	

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