

Ultrafast Rectifier

PA905C4R

FEATURES

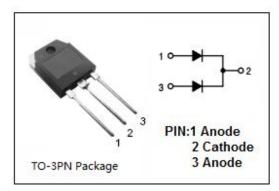
- Guarding for over voltage protection
- Dual rectifier construction, positive center tap
- · Metal of silicon rectifier, majority carrier conduction
- · Low forward voltage, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

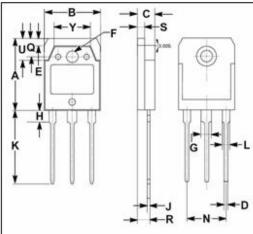
APPLICATIONS

- · Switching power supply
- · Power switching circuits

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
I _{F(AV)}	Average Rectified Forward Current	20	Α
I _{FSM}	Nonrepetitive Peak Surge Current	80	Α
TJ	Junction Temperature	-40~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-40~150	$^{\circ}$





mm

	N	
DIM	MIN	MAX
Α	19.60	20.30
В	15.50	15.70
C	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
Н	3.20	3.40
J	0.595	0.605
K	19.80	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.20
Υ	9.90	10.10



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THERMAL CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS(T_a=25°C) (Pulse Test: Pulse Width=300 μ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 10A	1.5	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM}	500	μ А
t _{rr}	Maximum Reverse Recovery Time	I _F =0.1A, I _R =0.2A, I _{rec} =0.05A	50	ns



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