

INCHANGE SEMICONDUCTOR

MUR3040PT

FEATURES

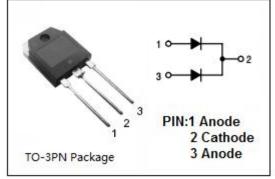
- Guarding for over voltage protection
- · Dual rectifier construction, positive center tap
- · Metal of silicon rectifier, majority carrier conduction
- · Low forward voltage, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

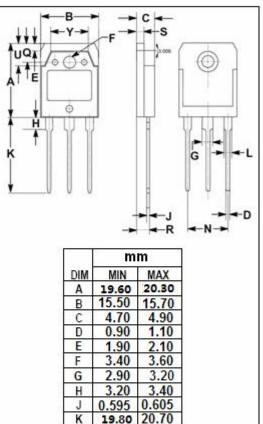
APPLICATIONS

- Switching power supply
- Rectifier in switch mode supplies

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} Vrwm Vr	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
lf(AV)	Average Rectified Forward Current Per Leg Total device	15 30	A
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	150	A
P _D	Maximum power dissipation	100	W
TJ	Junction Temperature	-40~175	°C
T _{stg}	Storage Temperature Range	-40~175	°C





1.90

10.89

4.90

3.35

5.90

1.995

N

Q

R

s

V

2.20

5.10

3.45

2.100

6.20

9.90 10.10

10.91



INCHANGE SEMICONDUCTOR

Fast Recovery Rectifier

MUR3040PT

THERMAL CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS(Ta=25℃) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	IF= 15A ;Tj=25℃ IF= 15A ;Tj=150℃	1.25 1.12	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM;} Tj=25℃ V _R = V _{RWM;} Tj=150℃	10 500	μA
trr	Maximum Reverse Recovery Time	IF =1A;	60	ns

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