

## MUR3040PT

### ULTRAFAST RECTIFIERS

PRV:400 Volts Io:30 Amperes

#### Description

These state-of-the-art devices are designed for use in switching power supplies, inverters and as free wheeling diodes.

#### Features

- High current capability
- High surge current capability
- High reliability
- Low leakage current
- Low forward voltage drop
- Fast switching for high efficiency
- RoHS compliant package

#### Mechanical Data

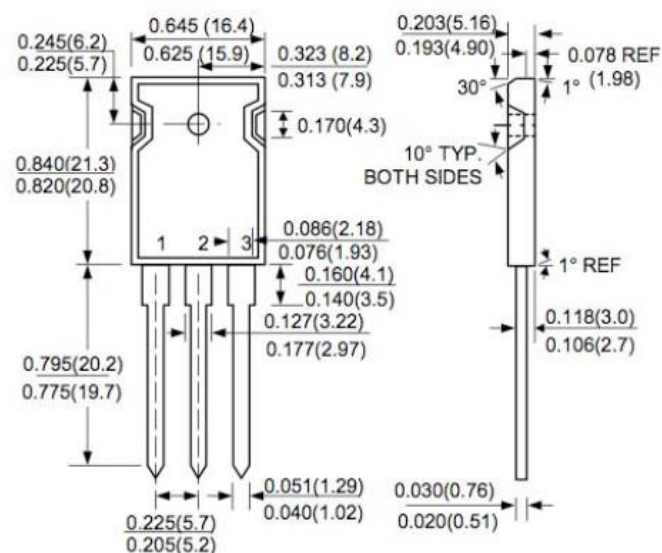
- Case : TO-247AD(TO-3P)
- Lead Temperature for Soldering Purposes: 260°C Max for 10 Seconds
- Weight : 4.3 grams (approximately)

#### Packing & Order Information

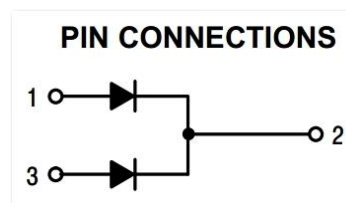
50/Tube ; 1,000/Box



**RoHS**  
COMPLIANT



#### Graphic symbol



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	VRRM	400	V
Working peak reverse voltage	VRWM	400	V
Maximum DC blocking voltage	VR	400	V
Maximum Average Rectified Forward Current (Rated VR) Tc = 150 °C	IF(AV)	15	A
Per Leg		30	
Maximum Peak Forward Surge Current (60 Hz, Half wave, single phase ) Per Leg	IFSM	150	A
Maximum Instantaneous Forward Voltage at IF = 15 A	VF	1.25	A

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#### Maximum Ratings (Tc=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum Instantaneous Reverse TJ = 25 °C	IR	10	uA
Current at VR TJ = 150 °C	IR(H)	500	uA
Maximum Reverse Recovery Time	Trr	60	ns
Junction temperature range	TJ	-55 to +175	°C
Storage temperature range	TSTG	-55 to +175	°C

Notes :

(1) Pulse test: 300 µs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

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#### ■Characteristic Curves

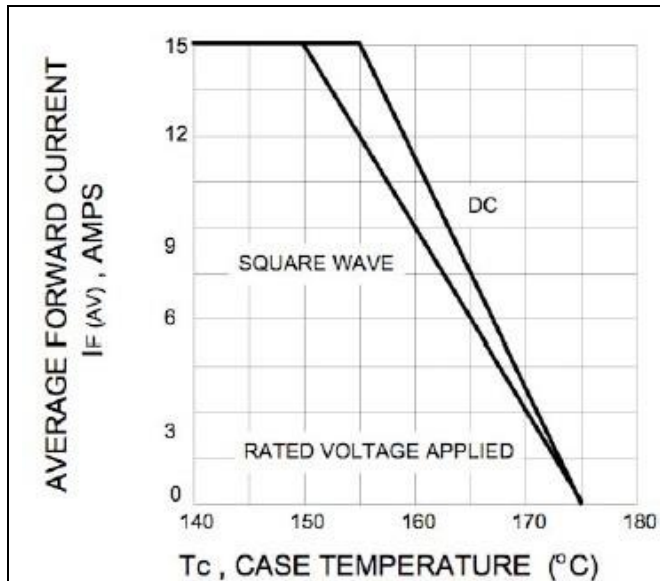


FIG.1- CURRENT DERATING CURVE ,  
CASE TEMPERATURE (PER LEG)

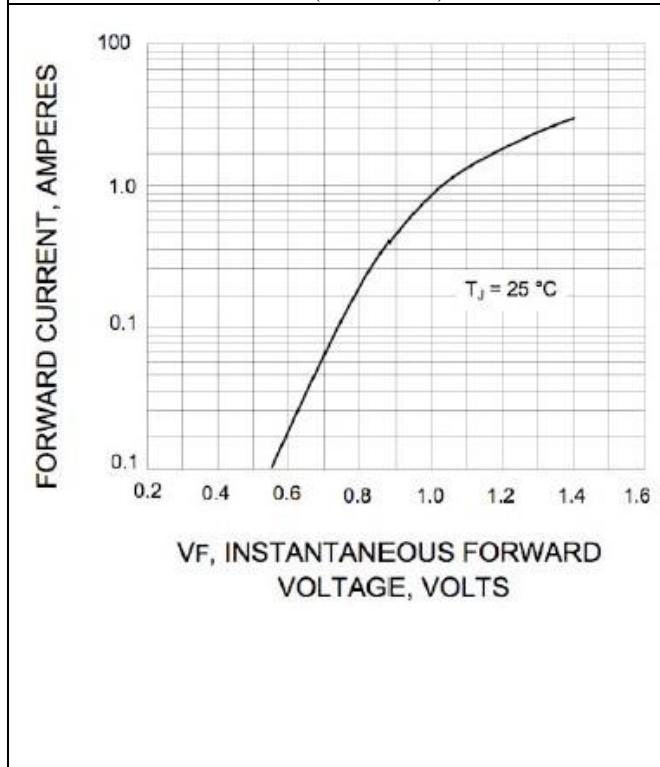


FIG.3- TYPICAL FORWARD VOLTAGE  
CHARACTERISTICS (PER LEG)

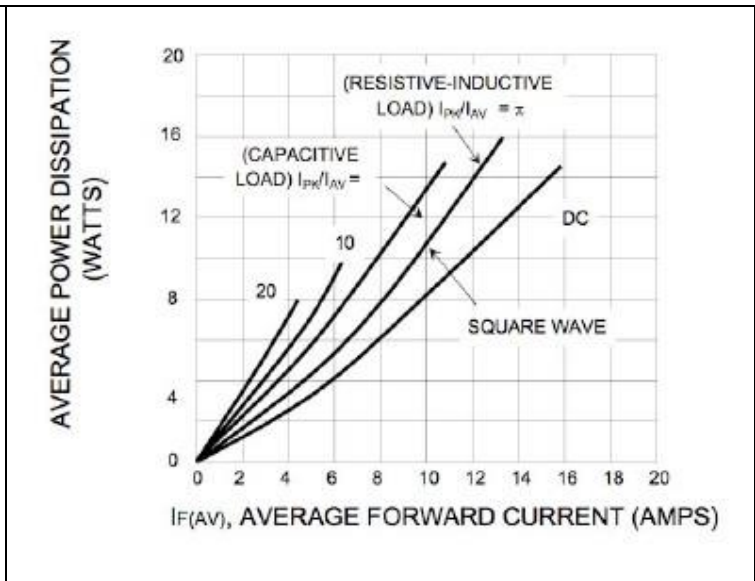


FIG.2- POWER DISSIPATION (PER LEG)

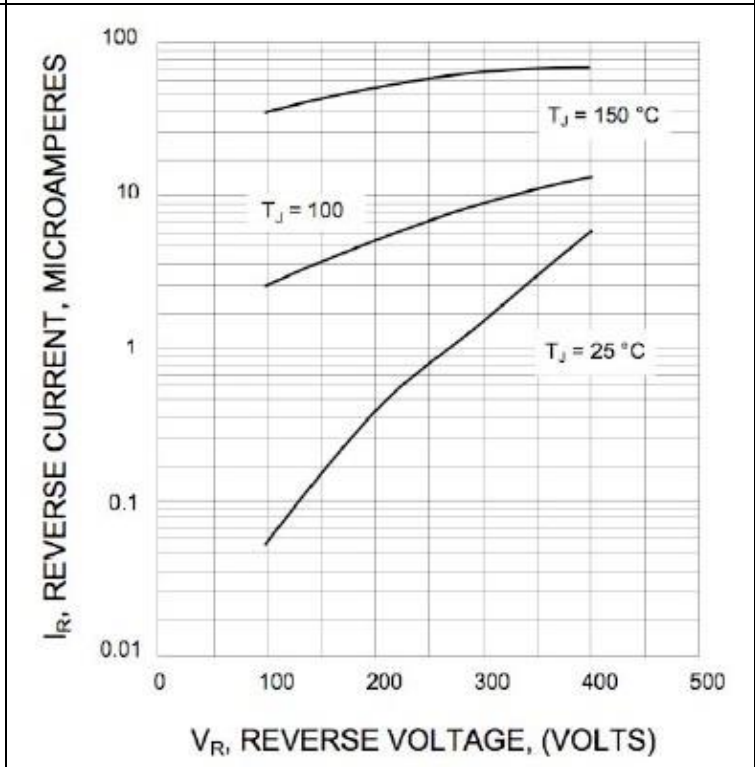


FIG.4- TYPICAL REVERSE CURRENT  
CHARACTERISTICS (PER LEG)

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