

MUR6060PT

ULTRAFAST RECOVERY RECTIFIERS

VOLTAGE 600 Volt **CURRENT** 60 Ampere

FEATURES

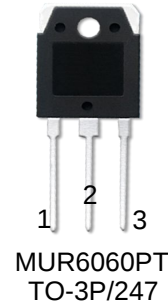
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- High current capability
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

Device Weight : 0.22 ounces (6.36grams) - TO-247/TO-3P

- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.

Mounting Torque : Recommended 4~5 kg-cm.



MARK: XXXXX

MAXIMUM RATINGS($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum average forward rectified current	$I_{F(AV)}$	30 60	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	300	A
Typical junction capacitance ($V_R=4V$, $f=1\text{MHz}$)	C_J	470	pF
Typical thermal resistance per diode (Note 1)	$R_{\theta JC}$	2.0	$^{\circ}\text{C/W}$
Maximum Reverse Recovery Time (Note 2)	T_{rr}	50	ns
Operating junction temperature range	T_J	-40 to + 150	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-40 to + 150	$^{\circ}\text{C}$

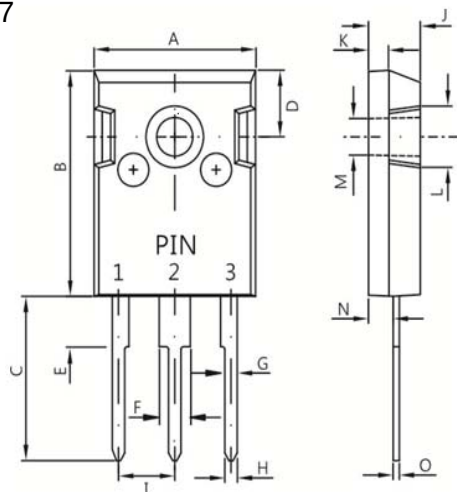
Note : 1. Mounted on infinite heatsink.

ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V_{BR}	$I_R=0.1\text{mA}$	600	-	-	V
Instantaneous forward voltage per diode	V_F	$I_F=30\text{A}$ $T_J=25^{\circ}\text{C}$	-	-	1.45	V
Reverse current per diode	I_R	$V_R=600\text{V}$ $T_J=25^{\circ}\text{C}$	-	-	1	μA

MUR6060PT

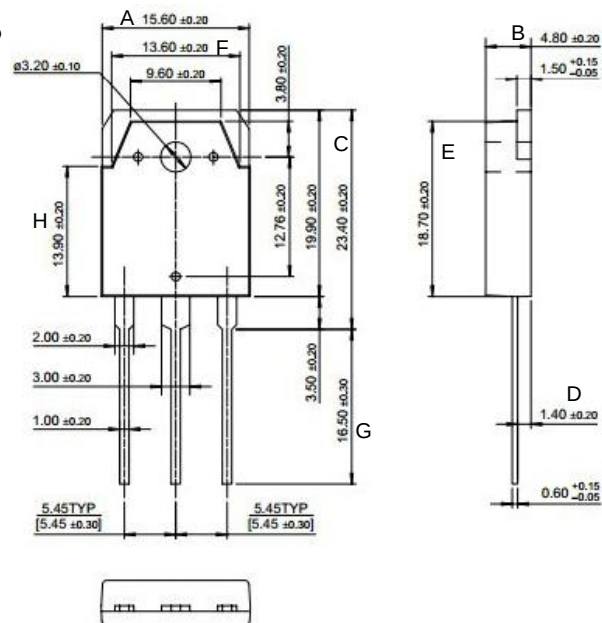
TO-247



Dim.	Min.	Max.
A	15.20	16.00
B	19.13	20.87
C	13.00	16.00
D	5.50 Typ.	
E	3.85	4.15
F	2.80	3.20
G	1.70	2.30
H	0.88	1.52
I	5.45 Typ.	
J	4.66	5.34
K	1.17	1.37
L	4.00 Typ.	
M	3.60 Typ.	
N	2.20	2.60
O	0.42	0.58

All Dimensions in millimeter

TO-3P



Dim	Min	Max
A	15.6	15.8
B	4.75	4.8
C	19.9	20.1
D	1.4	1.6
E	16.8	18.7
F	13.3	13.6
H	13.9	14.16