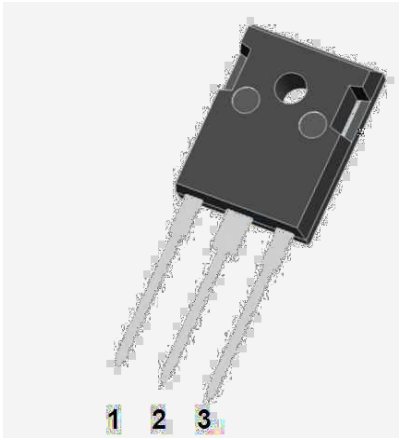




● Adopt FRED chip

●Typical applications are in switching power supplies,
. converters, freewheeling diodes, and reverse battery protection.

- : TO-247AB
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- : As marked

■ (Tj=25 Unless otherwise specified

Device marking code			MUR6040PT
Repetitive Peak Reverse Voltage	V_{RRM}	V	400
Average Rectified Output Current @60Hz sine wave, R-load, T_C(FIG.1)	I_O	A	60
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Tj=25	I_{FSM}	A	300
Current Squared Time @1ms≤t≤8.3ms Tj=25	I^2t	A^2s	373
Single Pulse Avalanche Energy @ Tp=40uS, Tj=25 ,L=15mH	EAS	mJ	485
Storage Temperature	Tstg		-55 ~ +175
Junction Temperature	Tj		-55 ~ +175
Typical Junction capacitance @4V,1MHz	Cj	pF	295

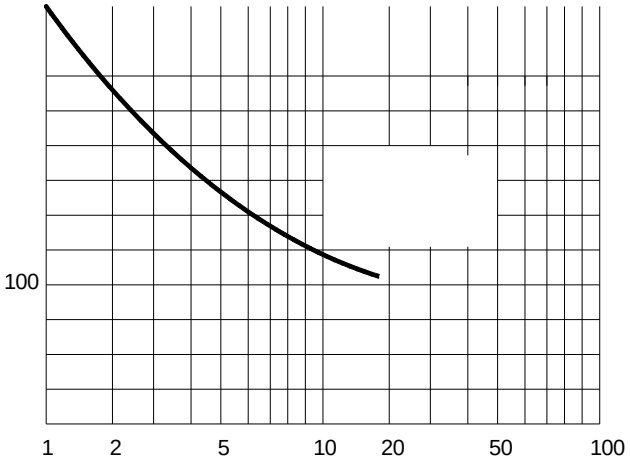
■

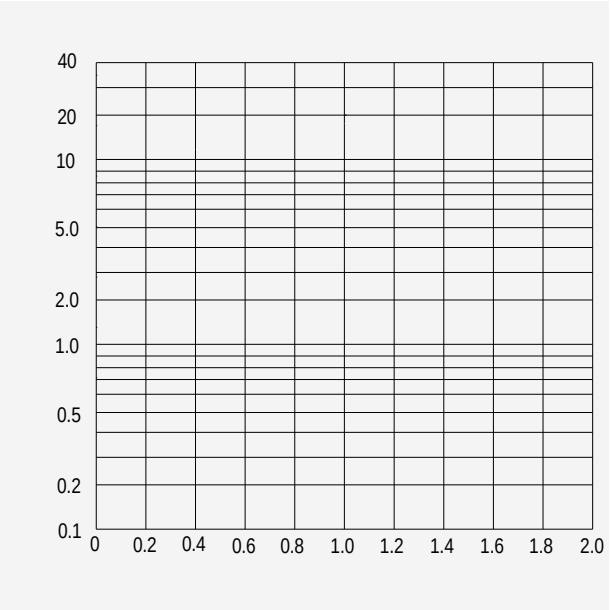
Instantaneous forward voltage drop per diode	V_{FM}	V	I_{FM}=30.0A @Tj=25		-	1.2	1.4
			I_{FM}=30.0A @Tj=150			0.96	1.2
DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	uA	V_{RM}=V_{RRM} Tj=25		-	-	5.0
	I_{RRM2}		V_{RM}=V_{RRM} Tj=150		-	46	200
Reverse Recovery Time	Trr	ns	I_F=0.5A I_{RM}=1A I_{RR}=0.25A Tj=25		-	36	50
			Tj=25	I_F=30A di/dt=-200A/us V_{RM}=200V	-	45.5	-
			Tj=125		-	85.5	-
Peak recovery current	I_{RRM}	A	Tj=25		-	4.0	-
			Tj=125		-	9.5	-
Reverse recovery charge	Qrr	nC	Tj=25		-	95.5	-
			Tj=125		-	410.5	-

■ Tj=25 Unless otherwise specified

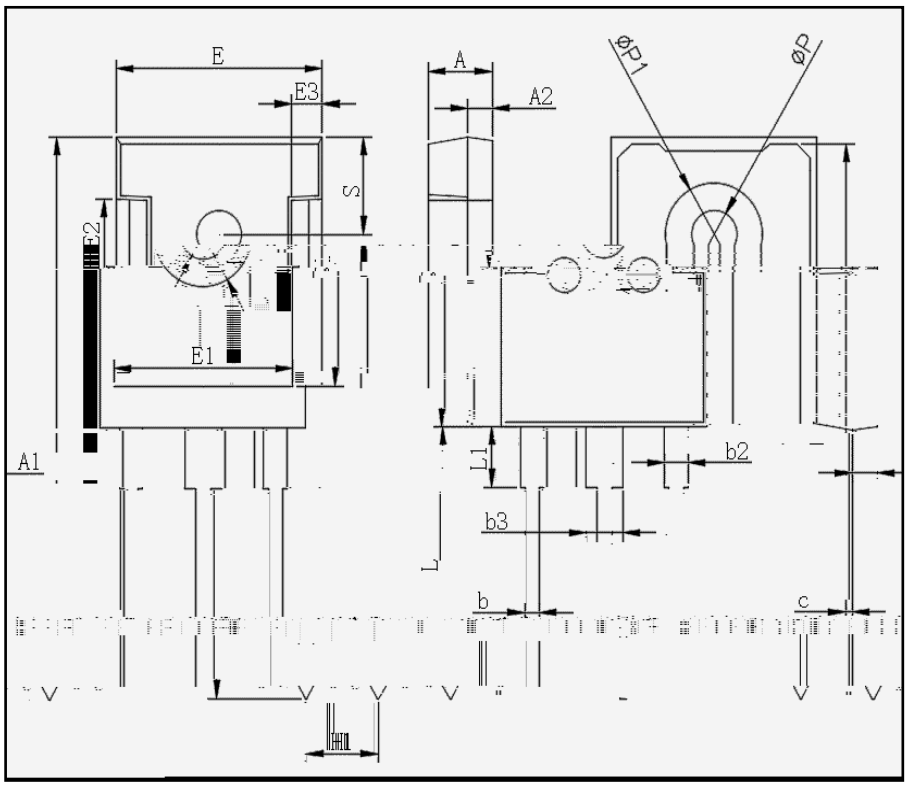
Thermal Resistance	Between junction and case	$R_{\theta J-C}$	/W	1.0
	Between junction and Air	$R_{\theta J-A}$	/W	50

■ (Typical)




40
20
10
5.0
2.0
1.0
0.5
0.2
0.1
0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0

■



Dim	Min	Max
A	4.80	5.20
A1	2.21	2.61
A2	1.85	2.15
b	1.0	1.4
b2	1.91	2.21
C	0.5	0.7
D	20.70	21.30
D1	16.25	16.85
E	15.50	16.10
E1	13.0	13.6
E2	4.80	5.20
E3	2.30	2.70
L	19.62	20.22
L1	-	4.30
ΦP	3.40	3.80
ΦP1	-	7.30
S	6.15TYP	
H1	5.44TYP	
b3	2.80	3.20

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com , or consult your nearest Yangjie's sales office for further assistance.