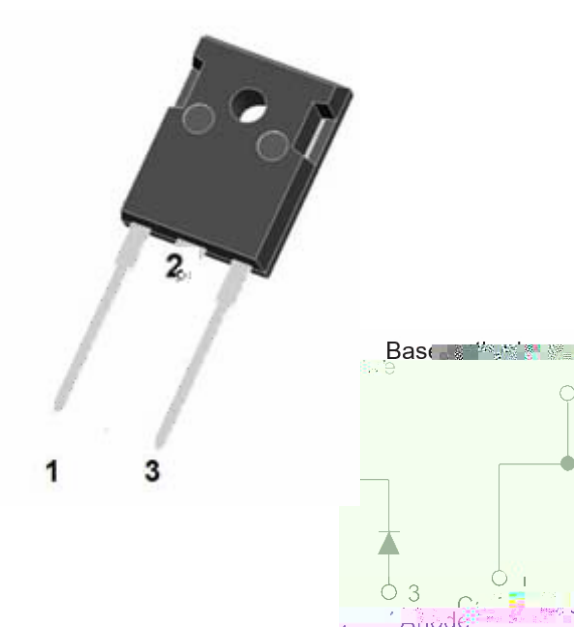




Typical Applications

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

Mechanical Data

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

■Maximum Ratings (Tj=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MURL3060P
Device marking code			MURL3060P
Repetitive Peak Reverse Voltage	VRRM	V	600
Average Rectified Output Current @60Hz sine wave, R-load, Tc(FIG.1)	IO	A	30
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Tj=25	IFSM	A	300
Current Squared Time @1ms≤t≤8.3ms Tj=25	I²t	A²s	373
Storage Temperature	Tstg		-55 ~ +175
Junction Temperature	Tj		-55 ~ +175
Typical Junction capacitance @4V,1MHz	Cj	pF	197



MURL3060P

■Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=30.0A$ @ $T_J=25$	-	1.25	1.80
			$I_{FM}=30.0A$ @ $T_J=125$		1.11	1.50
DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	μA	$V_{RM}=V_{RRM}$ $T_J=25$	-	-	5.0
	I_{RRM2}		$V_{RM}=V_{RRM}$ $T_J=125$	-	-	200
Reverse Recovery Time	T_{rr}	ns	$I_F=0.5A$ $I_{RM}=1A$ $I_{RR}=0.25A$ $T_J=25$	-	40	75
			$T_J=25$	-	100	-
			$T_J=125$	-	175	-
Peak recovery current	I_{RRM}	A	$T_J=25$	-	7.50	-
			$T_J=125$	-	16.76	-
Reverse recovery charge	Q_{rr}	nC	$T_J=25$	-	375	-
			$T_J=125$	-	1450	-

■Thermal Characteristics $T_J=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	MURL3060P
Thermal Resistance	Between junction and case	$R_{\theta J-C}$	$^{\circ}W$	1.0
	Between junction and Air	$R_{\theta J-A}$	$^{\circ}W$	50

■ Characteristics(Typical)

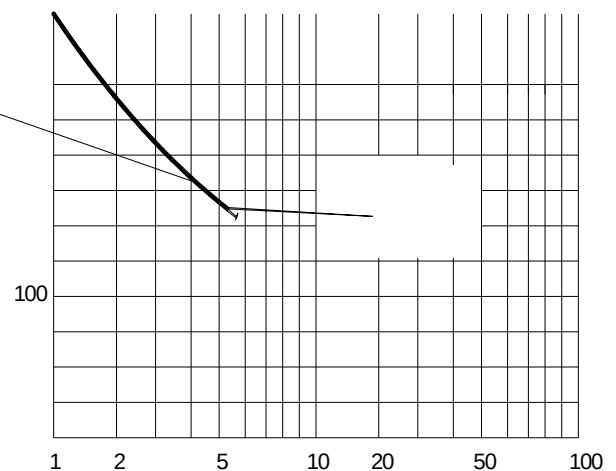
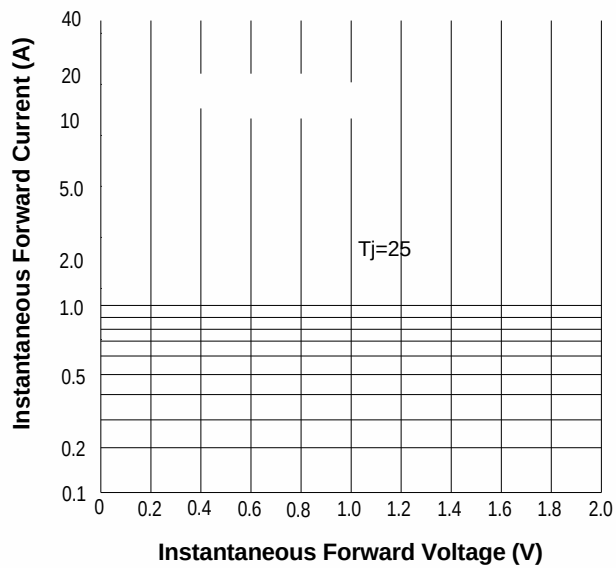
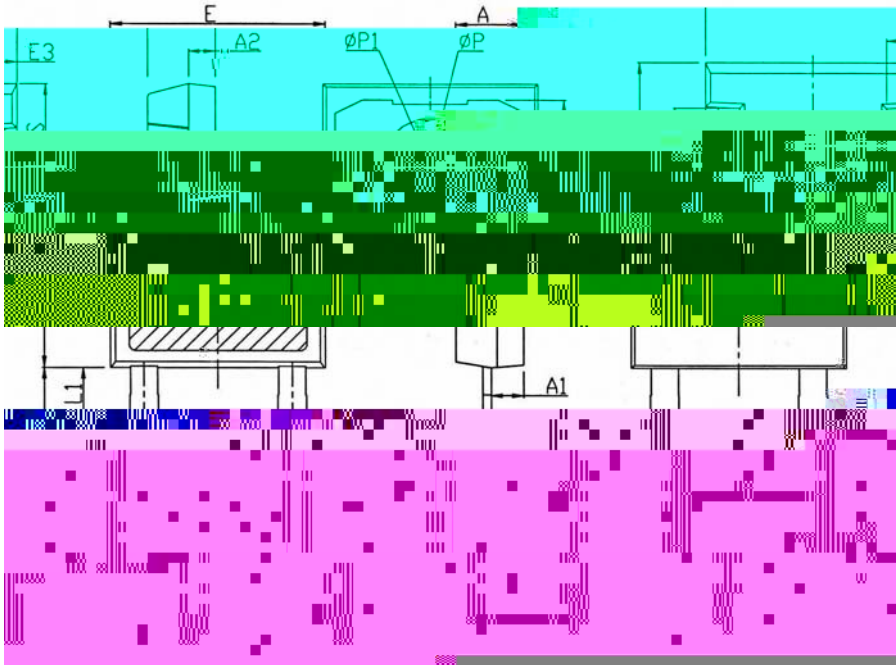




FIG3: Forward Voltage



■ Outline Dimensions



TO247-AC		
Dim	Min	Max
A	4.80	5.20
A1	2.21	2.61
A2	1.85	2.15
b	1.11	1.36
b2	1.91	2.21
c	0.51	0.75
D	20.70	21.30
D1	16.25	16.85
E	15.50	16.10
E1	13.00	13.60
E2	4.80	5.20
E3	2.30	2.70
e	10.88 TYP	
L	19.62	20.22
L1	-	4.30
φP	3.40	3.80
φP1	-	7.30
S	6.15 TYP	



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