

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 (T_j=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MUR3060PL
Device marking code			MUR3060PL
Repetitive Peak Reverse Voltage	V _{RO}	A	30
Surge(Non-repetitive) Forward Current @60Hz half sine-wave, 1 cycle, T _a =25 °C	I _{FSM}	A	300
Current Squared Time @1ms t 8.3ms T _j =25 °C	I ² t	A ² s	373
Single Pulse Avalanche Energy @ T _p =40uS, T _j =25 °C, L=15mH	EAS	mJ	210
Storage Temperature	T _{stg}		-55 ~ +175
Junction Temperature	T _j		-55 ~ +175
Typical Junction capacitance @4V,1MHz	C _j	pF	160



MUR3060PL

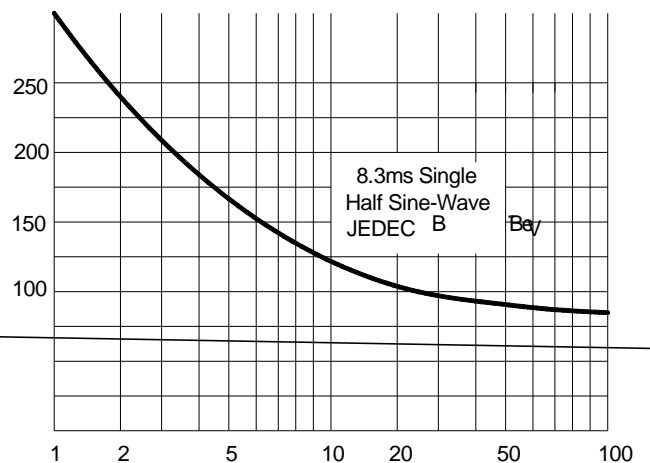
Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=30.0A @ T_j=25$	-	2.0	2.50
			$I_{FM}=30.0A @ T_j=125$		1.65	2.0
DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	uA	$V_{RM}=V_{RRM}$ $T_j=25$	-	-	5.0
	I_{RRM2}		$V_{RM}=V_{RRM}$ $T_j=125$	-	-	200
Reverse Recovery Time	T_{rr}	ns	$I_F=0.5A I_{RM}=1A$ $I_{RR}=0.25A T_j=25$	-	28	50
			$T_j=25$	-	60.5	-
			$T_j=125$	-	96.98	-
Peak recovery current	I_{RRM}	A	$T_j=25$	-	3.53	-
			$T_j=125$			
Reverse recovery charge	Q_{rr}	nC	$T_j=25$	-	106.7	-
			$T_j=125$	-	537.25	-

Thermal Characteristics $T_j=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MUR3060PL	
Thermal Resistance	Between junction and case	R J-C	mW	1.0
	Between junction and Air	R J-A	mW	50

Characteristics(Typical)

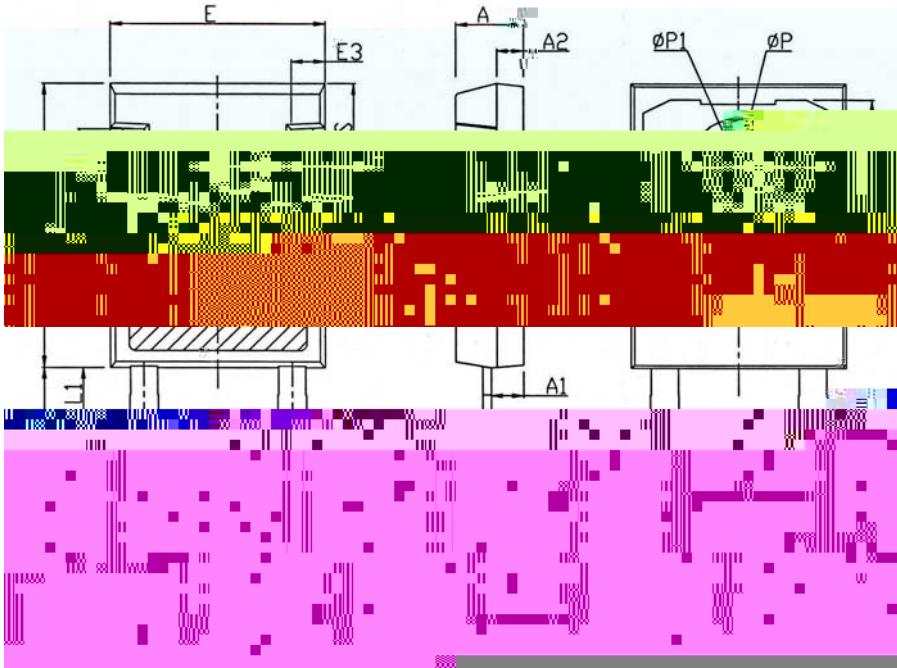


MUR3060PL



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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
P	3.40	3.80
P1		



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