

Features

- High frequency operation
- High surge forward current capability
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

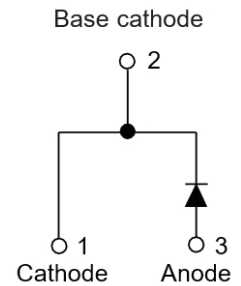
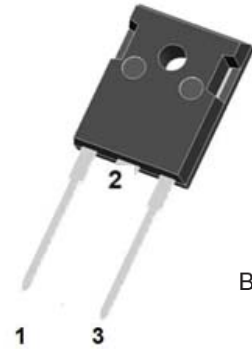
Typical Applications

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

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

Mechanical



Maximum Ratings (T_j=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MUR6060P
Device marking code			MUR6060P
Repetitive Peak Reverse Voltage	V _{RRM}	V	600
Average Rectified Output Current @60Hz half sine-wave, R-load, T _c (FIG.1)	I _o	A	60
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T _j =25°C	I _{FSM}	A	500
Current Squared Time @1ms≤t≤8.3ms T _j =25°C	I ² t	A ² s.	1037
Single Pulse Avalanche Energy @ T _p =40uS, T _j =25°C,L=15mH	EAS	mJ	900
Storage Temperature	T _{stg}	°C	-55 ~ +175
Junction Temperature	T _j	°C	-55 ~ +175
Typical Junction capacitance @4V,1MHz	C _j	pF	392

■Electrical Characteristics (T_j=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max	
instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =60.0A T _j =25°C	-	1.8	2.4	
DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	μA	V _{RM} =V _{R_{RM}} T _j =25°C	-	-	5.0	
	I _{RRM2}		V _{RM} =V _{R_{RM}} T _j =125°C	-	-	200	
Reverse Recovery Time	T _{rr}	ns	I _F =0.5A I _{RM} =1A I _{RR} =0.25A T _j =25°C	-	50	75	
			T _j =25°C	-	69.78	-	
			T _j =125°C	-	101.20	-	
Peak recovery current	I _{RRM}	A	T _j =25°C	I _F =30A di/dt=-200A/μs V _{RM} =200V	-	4.540	-
			T _j =125°C		-	10.98	-
Reverse recovery charge	Q _{rr}	nC	T _j =25°C	-	158.44	-	
			T _j =125°C	-	555.70	-	

■Thermal Characteristics (T_j=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	MUR6060P
Thermal Resistance	Between junction and case	R _{θJ-C}	°CW	1.0

■Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MUR6060P	Approximate 6.0	30	360	1800	Tube

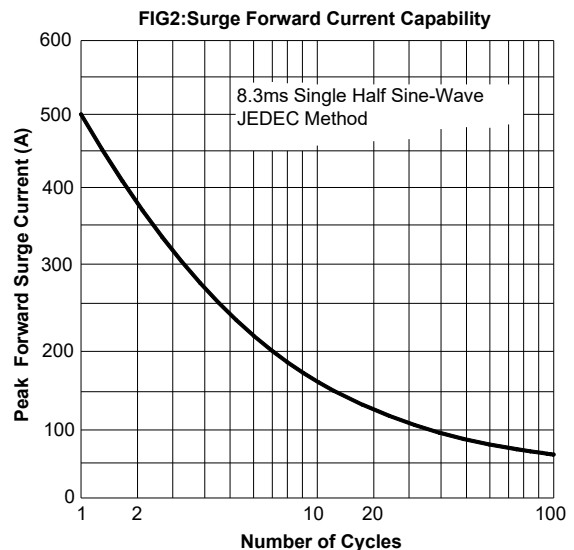
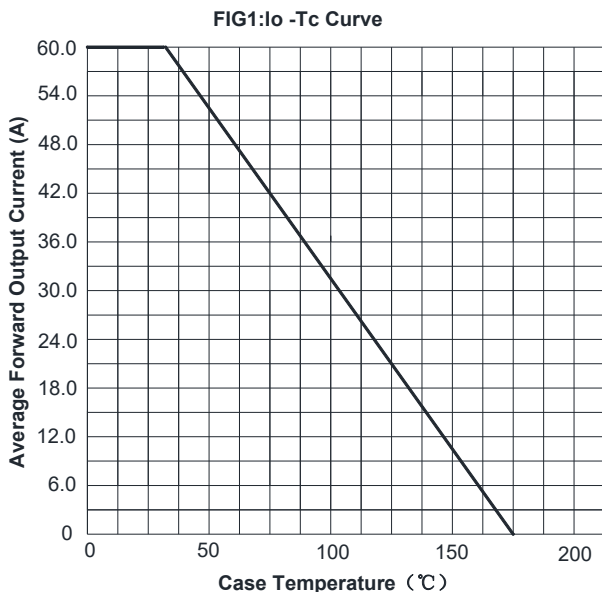
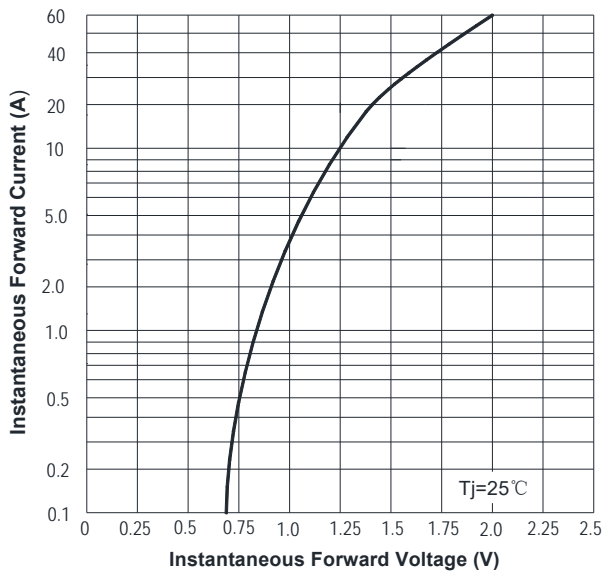
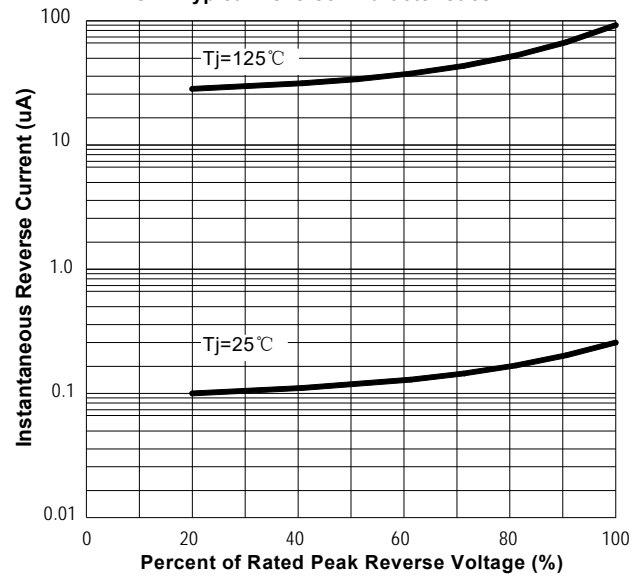
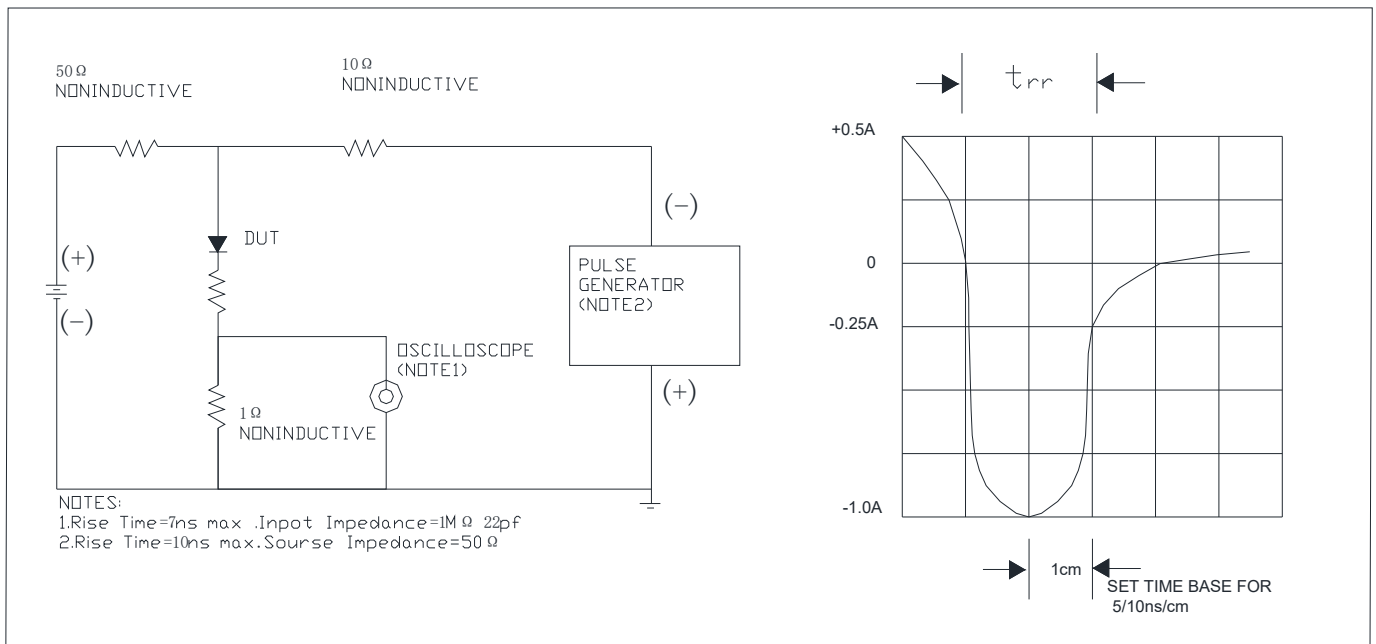
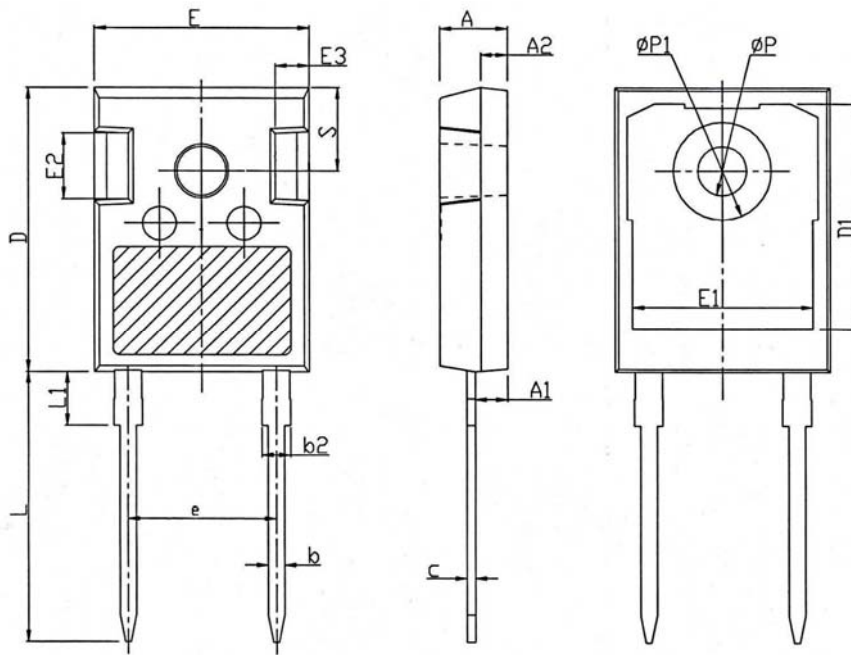
■Characteristics (Typical)


FIG3: Forward Voltage

FIG4: Typical Reverse Characteristics

FIG.5 Diagram of circuit and Testing wave form of reverse recovery time


■ Outline Dimensions



TO-247AC		
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	10.88BSC	
L	19.62	20.22
L1	-	4.30
φ P	3.40	3.80
φ P1	-	7.30
S	6.15BSC	

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