

8A,800V Ultrafast Recovery Rectifier

Features

- FRED Wafer Construction
- Low forward drop voltage, low power loss
- High Surge Current Capability
- Plastic package has underwriters Laboratory Flammability Classification 94V-0
- Halogen-free according to IEC 61249-2-21







Applications

- SMPS
- Lighting
- UPS

Mechanical Data

- Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec
- Shipped 50 units per plastic tube

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)					
Parameter	Symbol	MUR880	Unit		
Maximum repetitive peak reverse voltage	Vrrm	800	V		
Working peak reverse voltage	VRWM	800	V		
Maximum DC blocking voltage	VDC	800	V		
Maximum average forward rectified current	lf(AV)	10	А		
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load	IFSM	80	А		
Voltage rate of change (rated VR)	dv/dt	10000	V/uS		
Operating junction temperature range	TJ	-55 to +150	°C		
Storage temperature range	Tstg	-55 to +150	°C		

Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Тур	Max	Unit	
Forward drap voltage (Note1)	VF	IF=8A, TJ =25℃	1.65	2.10		
Forward drop voltage ^(Note1)		IF=8A, TJ =125℃	-	2.05		
	IR	TJ =25℃	-	10	uA	
Reverse leakage current @VR ^(Note2)		TJ =100℃	-	500		
Reverse recovery time	trr	IF=0.5A, IR=1.0A, IRR=0.25A	-	55	ns	

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)					
Parameter	Symbol	Тур	Unit		
Thermal Resistance, Junction to Case	Rejc	2.0	°C /W		
Thermal Resistance, Junction to Ambient	Reja	62.5	°C /W		

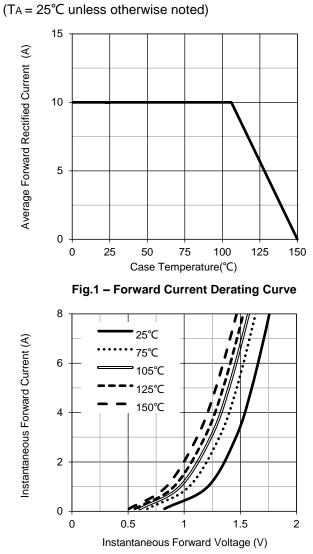
Note:

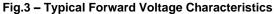
- 1. Pulse test with PW=0.3ms, duty cycle=2%
- 2. Pulse test with PW=30ms



MUR880 GOOD-ARK Electronics

Ratings and Characteristics Curves





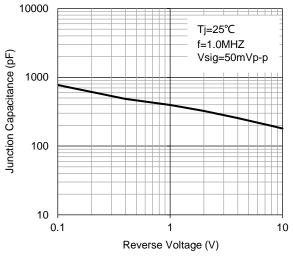
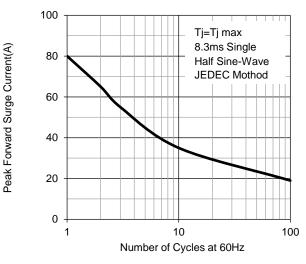


Fig.5 – Typical Junction Capacitance





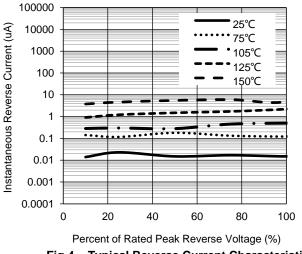
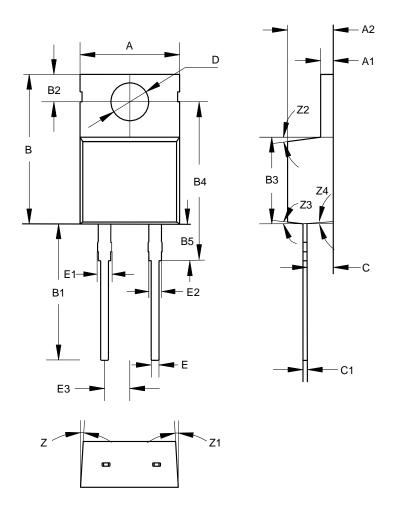


Fig.4 – Typical Reverse Current Characteristics



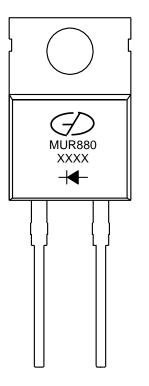
Package Outline Dimensions (Unit: millimeters) TO-220AC



	TO-220AC						
	Min.	Nom.	Max.		Min.	Nom.	Max.
А	9.8	10	10.2	D	3.7	3.8	3.9
A1	1.17	1.27	1.37	Е	0.68	0.78	0.88
A2	4.5	4.6	4.7	E1	1.2	1.4	1.6
В	14.5	15	15.5	E2	1.17	1.27	1.37
B1	13.2	13.7	14.2	E3	2.44	2.54	2.64
B2	2.65	2.75	2.85	Ζ		3°	
B3	8.5	8.7	8.9	Z1		3°	
B4	15.5	16	16.5	Z2		7°	
B5	3.4	3.7	4.0	Z3		7°	
С	2.3	2.6	2.9	Z4		1.5°	
C1	0.28	0.38	0.48				



Marking Outline



- 1. Logo Mark:
- 2. Part Name: MUR880
- 3. Date Code: XXXX
- 4. Polarity : -

Revision History

Document Version	Date of release	Description of changes
Rev.A	2022.12.30	Preliminary Datasheet



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