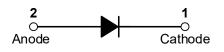


5A,400V Ultrafast Recovery Rectifier

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	MUR540F	Unit		
Maximum repetitive peak reverse voltage	Vrrm	400	V		
Working peak reverse voltage	Vrwm	400	V		
Maximum DC blocking voltage	Vdc	400	V		
Maximum average forward rectified current	lf(AV)	5	А		
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load	IFSM	60	А		
Voltage rate of change (rated VR)	dv/dt	10000	V/uS		
Operating junction temperature range	TJ	-55 to +150	°C		
Storage temperature range	Тѕтс	-55 to +150	°C		

Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Тур	Max	Unit	
Forward drap voltage (Note1)	VF	I ⊧=5A, T J =25 ℃	1.20	1.40	V	
Forward drop voltage ^(Note1)		I ⊧=5A, T J =125 ℃	-	1.20	V	
Devices la cleane comment (D) (D (Note2)	Ir	T J =25 ℃	-	10	uA	
Reverse leakage current @VR ^(Note2)		TJ =100℃	-	500		
Reverse recovery time	e recovery time trr		-	35	ns	

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)					
Parameter	Symbol	Тур	Unit		
Thermal Resistance, Junction to Case	Rejc	4.0	°C /W		
Thermal Resistance, Junction to Ambient	Reja	62.5	°C /W		

Note:

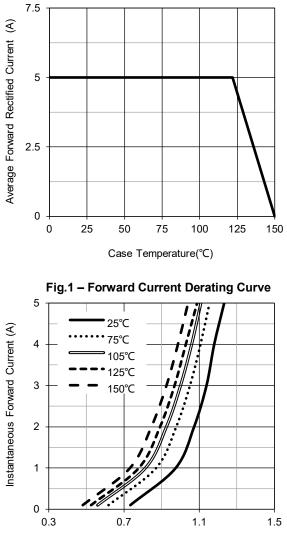
- 1. Pulse test with PW=0.3ms, duty cycle=2%
- 2. Pulse test with PW=30ms

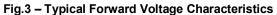


MUR540F GOOD-ARK Electronics

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)





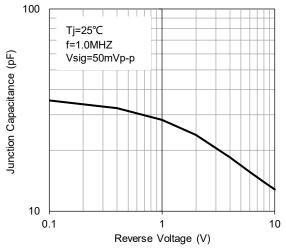
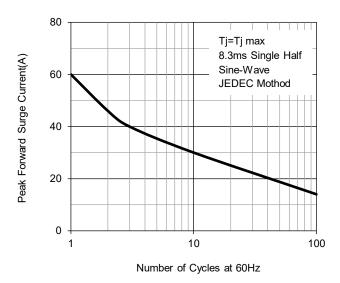
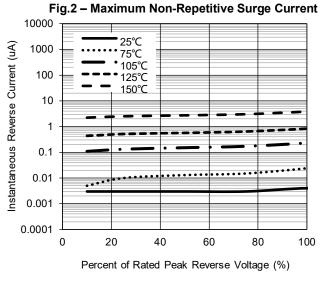
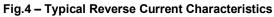
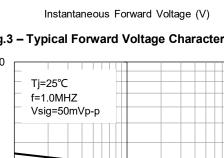


Fig.5 – Typical Junction Capacitance





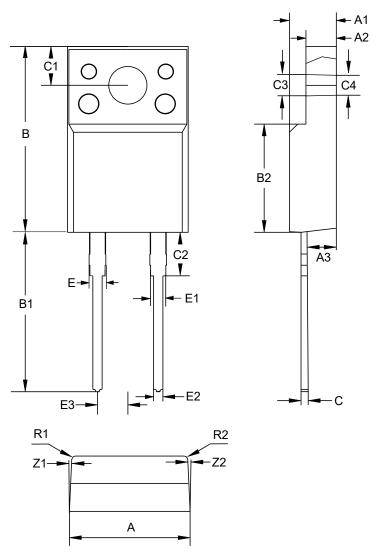






Package Outline Dimensions (Unit: millimeters)

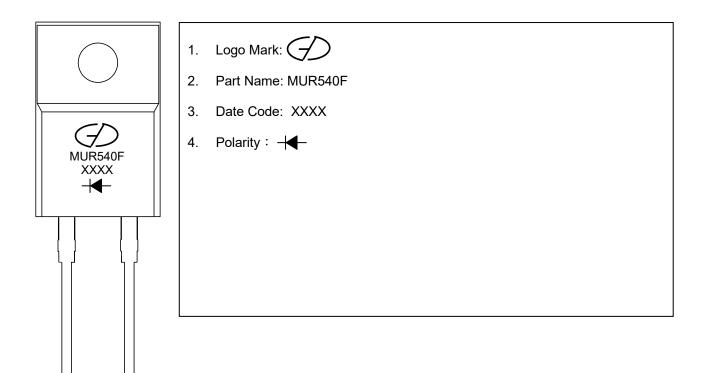
ITO-220AC



	ITO-220AC						
	Min.	Nom.	Max.		Min.	Nom.	Max.
А	9.9	10.1	10.3	C3	3.0	3.2	3.4
A1	4.6	4.7	4.8	C4	3.0		
A2	2.44	2.54	2.64	Е	1.15	1.35	1.55
A3	2.25	2.45	2.65	E1	1.17	1.27	1.37
В	15.5	15.8	16.1	E2	0.7	0.8	0.9
B1	13.25	13.55	13.85	E3	2.44	2.54	2.64
B2	9.0	9.2	9.4	R1		0.3	
С	0.5	0.6	0.7	R2		0.3	
C1	3.1	3.3	3.5	Z1		3°	
C2	3.0	3.3	3.6	Z2		3°	



Marking Outline



Revision History

Document Version	Date of release	Description of changes
Rev.A	2013.12.15	Released Datasheet
Rev.B	2021.01.20	Modify document format
Rev.C	2022.04.13	Update ratings and characteristics curves



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