

MURB1540S GOOD-ARK Electronics

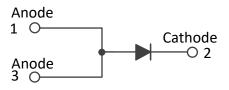
15A,400V Ultrafast Recovery Rectifier

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



TO-263AB(D²PAK)



Applications

- SMPS
- Adapter
- Server Power

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 or tape reel packing 800/reel

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	MURB1540S	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)	15	А	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load	IFSM	150	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	IF=15A, TJ =25℃	1.16	1.40		
Forward drop voltage (Note1)		IF=15A, TJ =125℃	-	1.20	V	
Devices la clue de commente (D) (D (Note2)	IR	TJ =25 ℃	-	10		
Reverse leakage current @VR ^(Note2)		TJ =100℃	-	500	uA	
Reverse recovery time	trr	IF=0.5A, IR=1.0A, IRR=0.25A	-	50	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		

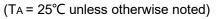
Note:

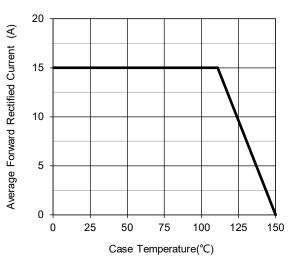
- 1. Pulse test with PW=0.3ms, duty cycle=2%
- 2. Pulse test with PW=30ms



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Ratings and Characteristics Curves







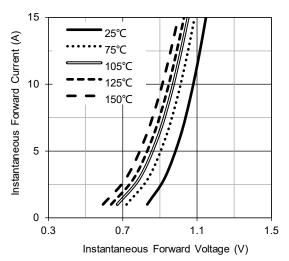


Fig.3 – Typical Forward Voltage Characteristics

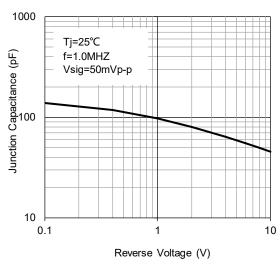
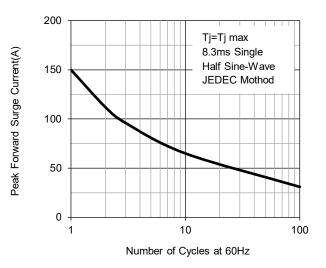


Fig.5 – Typical Junction Capacitance





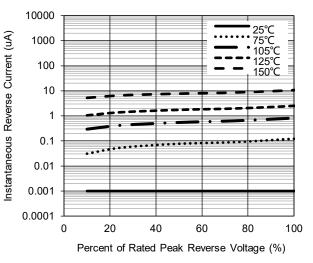
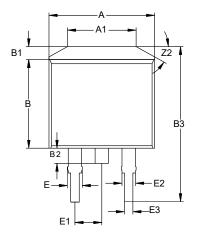


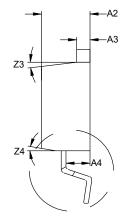
Fig.4 – Typical Reverse Current Characteristics

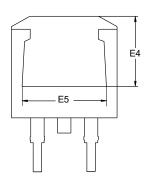


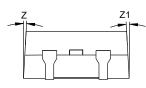
Package Outline Dimensions (Unit: millimeters)

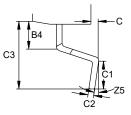
TO-263AB







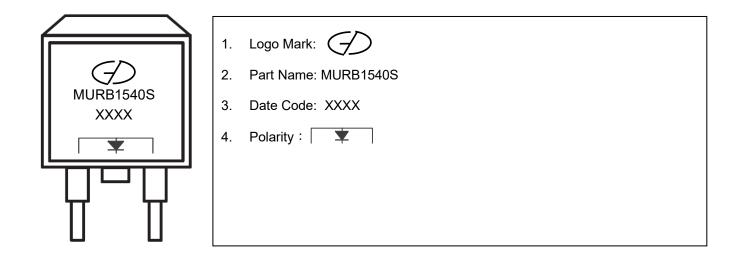




TO-263AB							
	Min.	Nom.	Max.		Min.	Nom.	Max.
А	9.8	10	10.2	C3	5	5.3	5.6
A1	6.5			Е	1.17	1.37	1.57
A2	4.4	4.6	4.8	E1	2.44	2.54	2.64
A3	1.17	1.27	1.37	E2	1.17	1.27	1.37
A4	2.37	2.67	2.97	E3	0.7	0.8	0.9
В	8.5	8.7	8.9	E4	6.47	6.67	6.87
B1	1.07	1.27	1.47	E5	8.3	8.5	8.7
B2	1.2	1.5	1.8	Ζ		3°	
B3	15	15.3	15.6	Z1		3°	
B4	1.8	2	2.2	Z2		30°	
С	0		0.25	Z3		7°	
C1	2.34	2.54	2.74	Z4		7°	
C2	0.3	0.4	0.5	Z5	-4°		4°



Marking Outline



Revision History

Document Version	Date of release	Description of changes
Rev.A	2013.12.04	Released Datasheet
Rev.B	2021.01.20	Modify document format
Rev.C	2022.04.20	Update ratings and characteristics curves



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