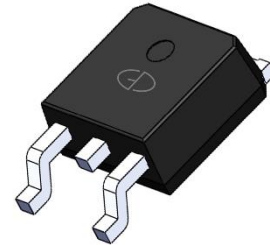


2A,600V Ultrafast Recovery Rectifier

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



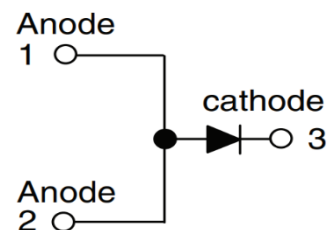
TO-252 (D-PAK)

Applications

- SMPS
- Lighting
- UPS

Mechanical Data

- Case: Epoxy, Molded
- Weight: 0.4grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec
- Shipped 2500 units per plastic tube



Maximum Ratings & Electrical Characteristics (TA=25°C unless otherwise noted)

Parameter	Symbol	MURD260S	Unit
Maximum repetitive peak reverse voltage	VRRM	600	V
Working peak reverse voltage	VRMS	420	V
Maximum DC blocking voltage	VDC	600	V
Maximum average forward rectified current	IF(AV)	2	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	60	A
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 ($T_A=25^{\circ}\text{C}$ unless otherwise noted)					
Parameter	Symbol	Test Conditions	Typ	Max	Unit
Forward Drop Voltage (Note1)	V_F	$I_F=2\text{A}, T_J=25^{\circ}\text{C}$	-	1.30	V
		$I_F=2\text{A}, T_J=125^{\circ}\text{C}$	-	1.20	
Reverse leakage current @VR (Note2)	I_R	$T_J=25^{\circ}\text{C}$	-	10	μA
		$T_J=125^{\circ}\text{C}$	-	500	
Reverse recovery time	t_{rr}	$I_F=0.5\text{A},$ $I_R=1.0\text{A}, I_{RR}=0.25\text{A}$	-	50	ns

Thermal-Mechanical Specifications ($T_A=25^{\circ}\text{C}$ unless otherwise noted)			
Parameter	Symbol	Typ	Unit
Thermal Resistance, Junction to Case	$R_{\theta JC}$	4.5	$^{\circ}\text{C}/\text{W}$
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	62.5	$^{\circ}\text{C}/\text{W}$

Note:

1. Pulse test with $PW=0.3\text{ms}$, duty cycle=2%
2. Pulse test with $PW=30\text{ms}$

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

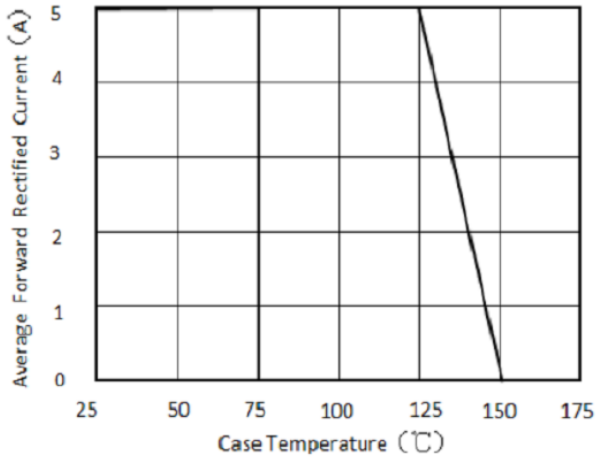


Fig.1 – Forward Current Derating Curve

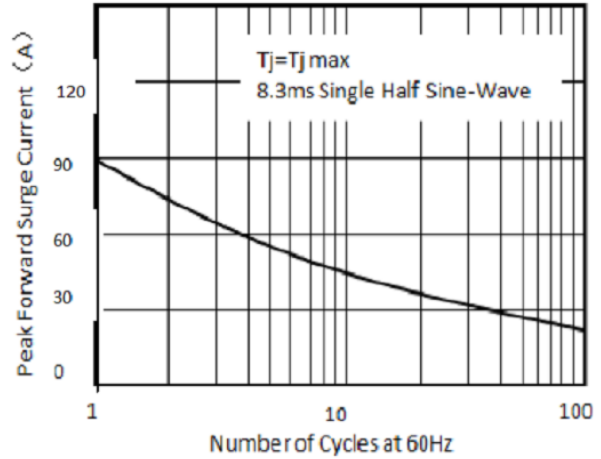


Fig.2 – Maximum Non-Repetitive Surge Current

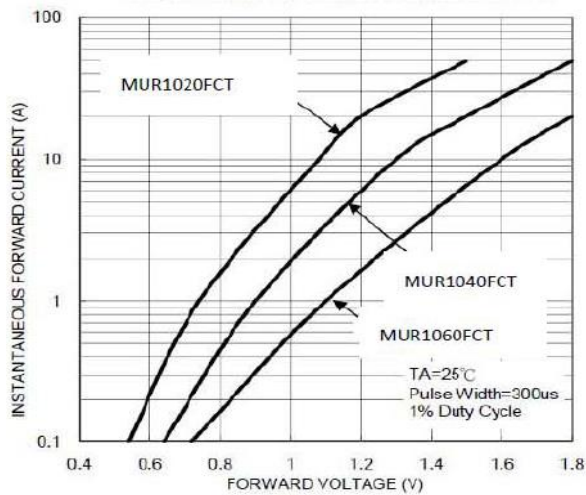


Fig.3 – Typical Forward Voltage Characteristics

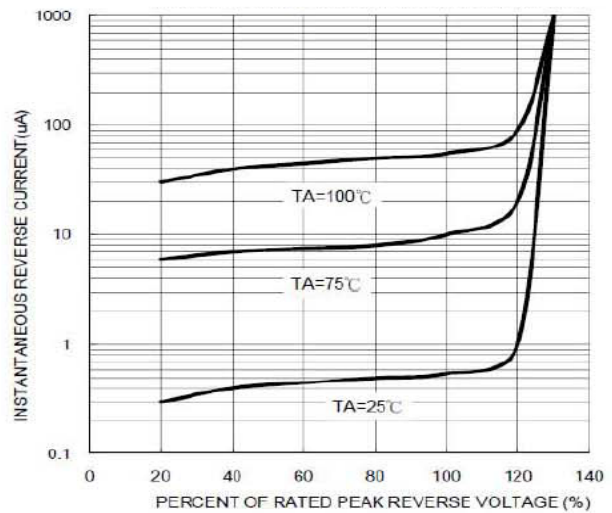


Fig.4 – Typical Reverse Current Characteristics

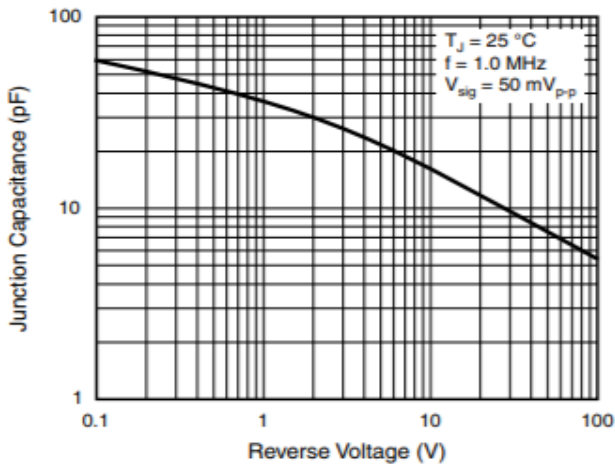
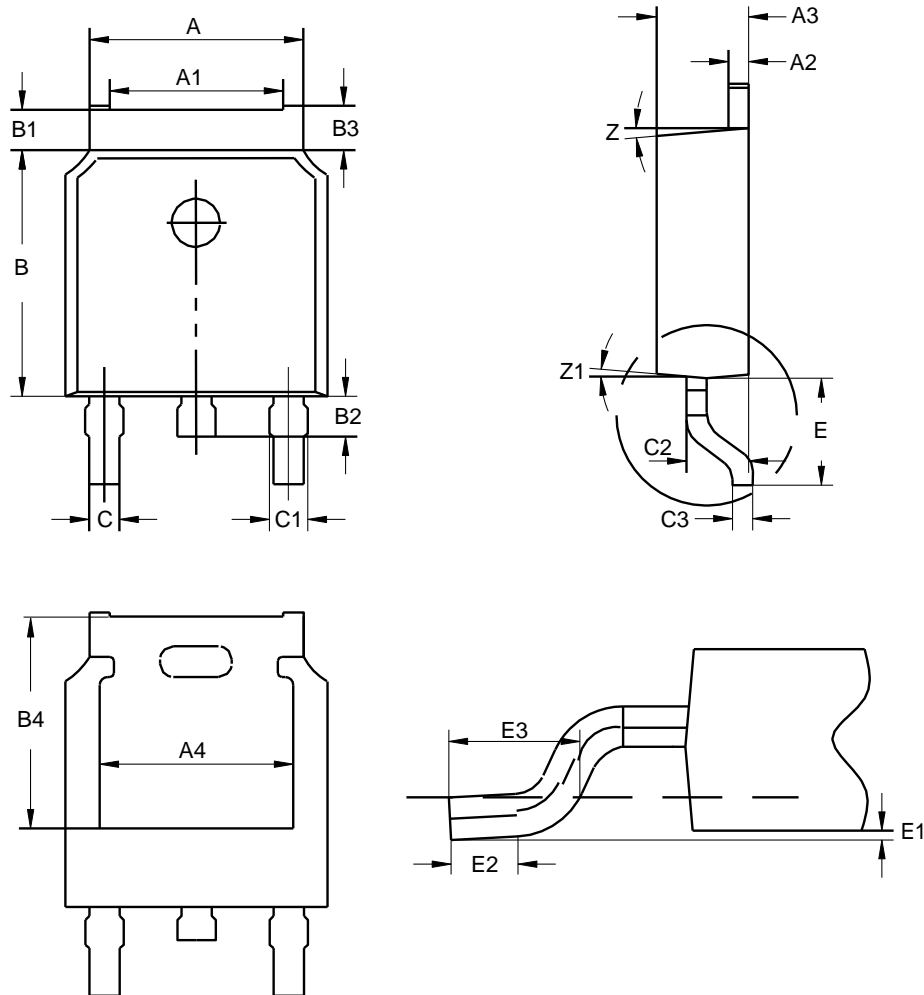


Fig.5 – Typical Junction Capacitance

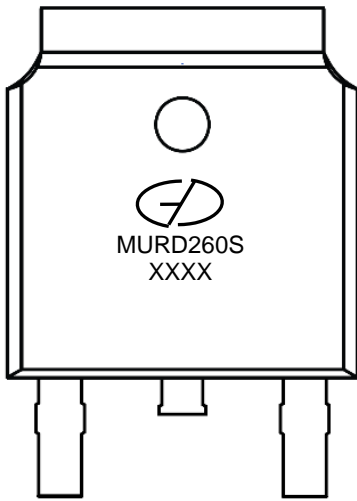
Package Outline Dimensions (Unit: millimeters)


TO-252 (D-PAK)



TO-252							
	Min.	Nom.	Max.		Min.	Nom.	Max.
A	6.34	6.54	6.74	C	0.66	0.76	0.86
A1	5.2	5.3	5.4	C1	0.75	0.95	1.15
A2	0.4	0.5	0.6	C2	1.34	1.54	1.74
A3	2.08	2.28	2.48	C3	0.4	0.5	0.6
A4		4.4		E	2.6	2.9	3.2
B	5.8	6.1	6.4	E1	0		0.15
B1	0.9	1.1	1.3	E2	0.7		
B2	0.8	1	1.2	E3	1.3	1.6	1.9
B3	0.82	1.02	1.22	Z		7°	
B4		5.25		Z1		7°	

Marking Outline



1. Logo Mark: 
2. Part Name: MURD260S
3. Data code: XXXX

Revision History

Document Version	Date of release	Description of changes
Rev.A	2016.12.18	Released Datasheet
Rev.B	2021.01.23	Modify document format

Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-