MUR860FS

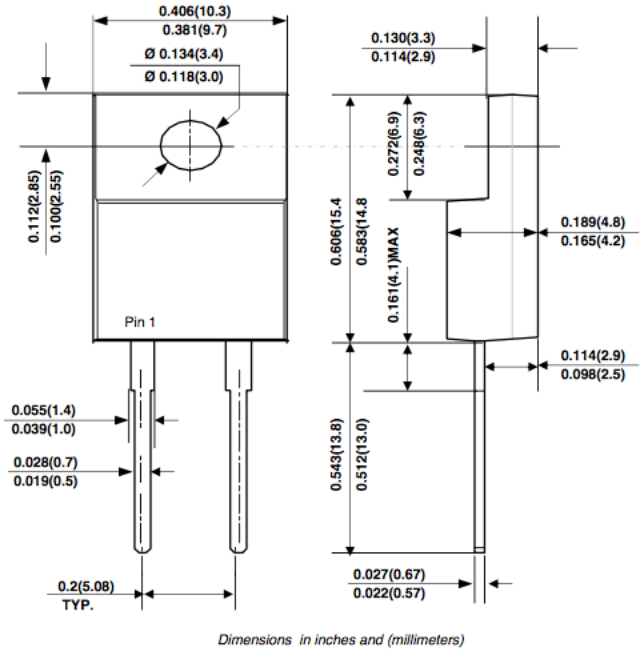
Super Fast Rectifiers

Features

- Ultrafast switching
- Low forward voltage drop.
- High current capability.
- Easily cleaned with Alcohol,Isopropanol and Similar solvents.
- RoHS compliant package

Mechanical Data

- Molding compound meets UL 94 V-0 flammability
- RoHS compliant, and commercial grade
- Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD 22-B102
- Polarity: As marked
- Weight: 0.08ounce, 1.81 grams



Dimensions in inches and (millimeters)

Package type：ITO-220AC

Packing & Order Information

50/Tube ; 1,000/Box

Graphic symbol

RoHS
COMPLIANT

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)

Parameter	Symbol	MUR860FS	Unit
Maximum repetitive peak reverse voltage	VRRM	600	V
Working peak reverse voltage	VRWM	420	V
Maximum DC blocking voltage	VDC	600	V
Maximum average forward rectified current	IF(AV)	8	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100	A
Junction Capacitance	Cj	70	pF
Operating junction temperature range	TJ	-50 to +175	°C
Storage temperature range	TSTG	-50 to +175	°C

MUR860FS

Super Fast Rectifiers

Electrical characteristics (Tc=25°C unless otherwise noted)				
Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage at IF=8A, TA=25°C	VF	--	1.3	V
Maximum reverse current Tj=25°C	VRRM	10		uA
at working peak reverse voltage Tj=125°C	VDC	200		uA
Reverse Recovery Time IF = 1 A, dIF/dt = -50 A/μs VR = 30 V	Trr	75		ns

Thermal characteristics (Tc=25°C unless otherwise noted)			
Parameter		Value	Unit
Typical thermal resistance	Symbol	MUR860FS	°C/W
	Rthja	5.0	

Notes:

(1) Pulse test: 300 μs pulse width, 1 % duty cycle

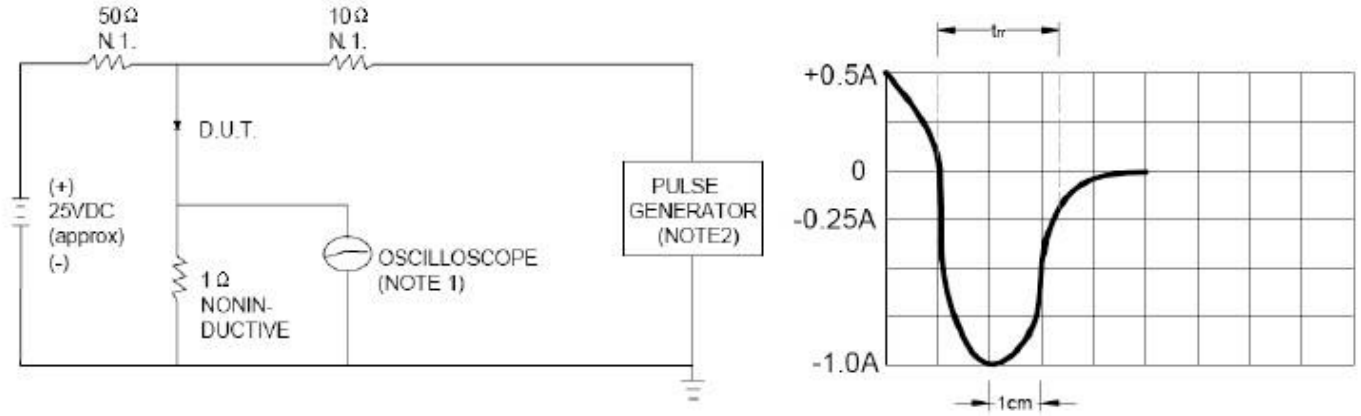
(2) Pulse test: Pulse width ≤ 40 ms

(3) Cj Measured at 1.0MHz and reverse voltage of 4.0V DC

MUR860FS

Super Fast Rectifiers

■TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



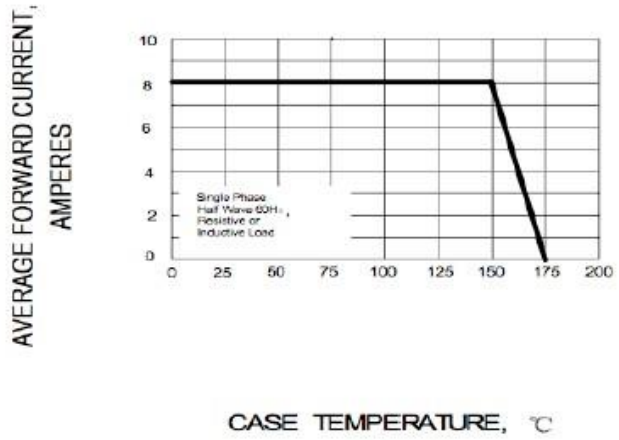
NOTES:

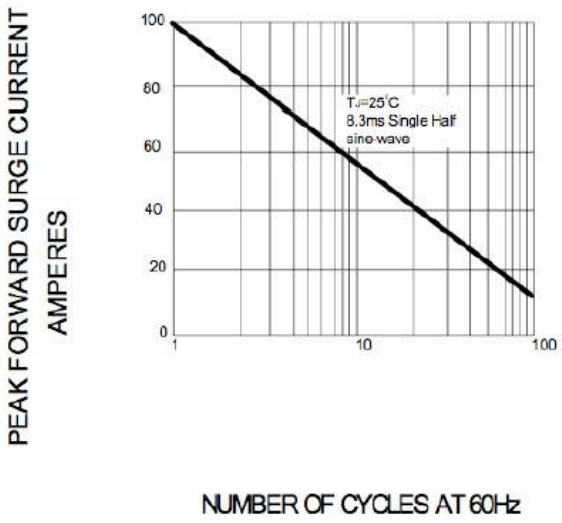
1.RISE TIME = 7ns MAX.INPUT

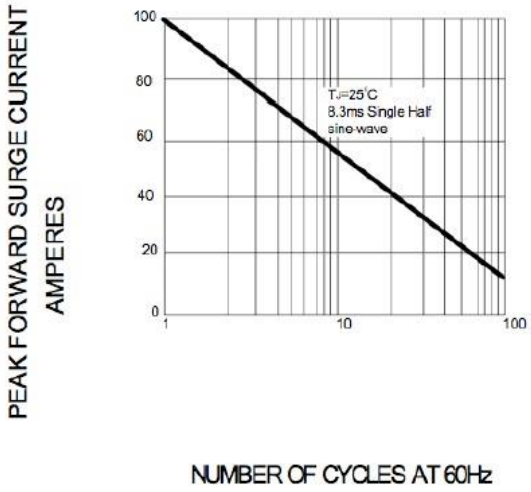
IMPEDANCE =1M . 22pF. SET TIME BASE FOR 10/20 ns/cm

2.RISE TIME =10ns MAX.SOURCE IMPEDANCE=50

FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC







MUR860FS

Super Fast Rectifiers

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Bruckewell Technology Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, “Bruckewell”), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Bruckewell makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Bruckewell disclaims

(i) Any and all liability arising out of the application or use of any product.

(ii) Any and all liability, including without limitation special, consequential or incidental damages.

(iii) Any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Bruckewell’s knowledge of typical requirements that are often placed on Bruckewell products in generic applications.

Such statements are not binding statements about the suitability of products for a particular application. It is the customer’s responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time.

Product specifications do not expand or otherwise modify Bruckewell’s terms and conditions of purchase, including but not limited to the warranty expressed therein.