MUR860FS

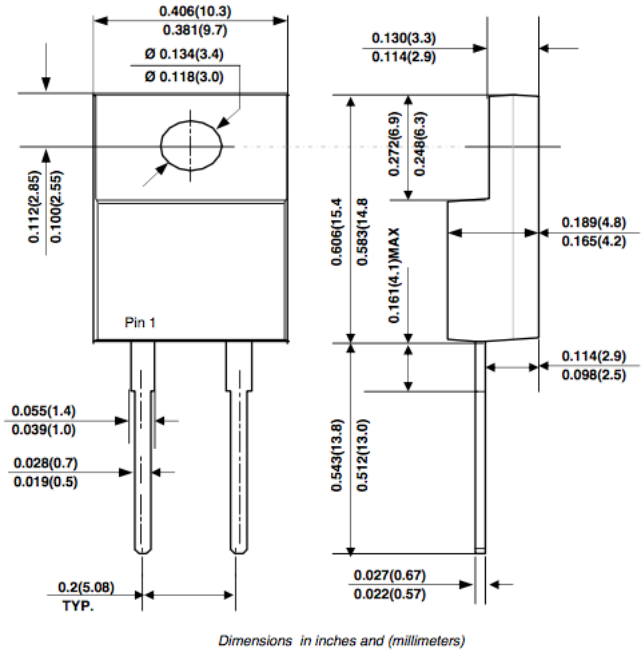
Super Fast Rectifiers

Features

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

Mechanical Data

- Case: ITO-220AC
- 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)

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

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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

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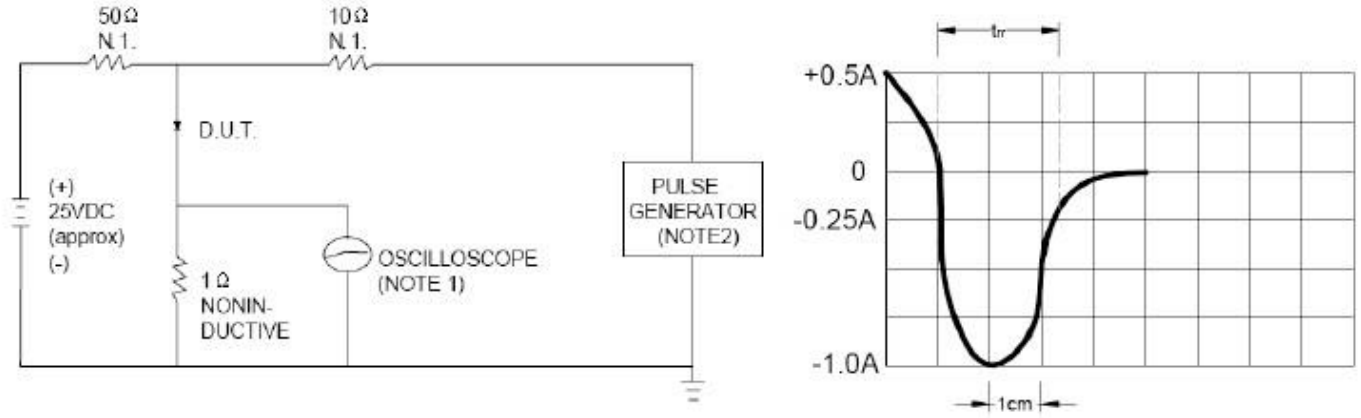
■TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



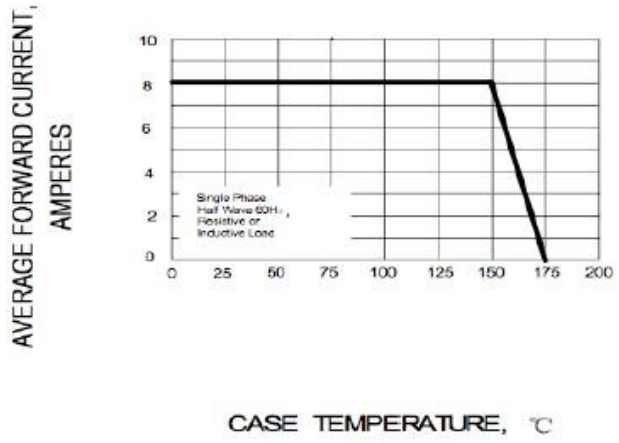
NOTES:

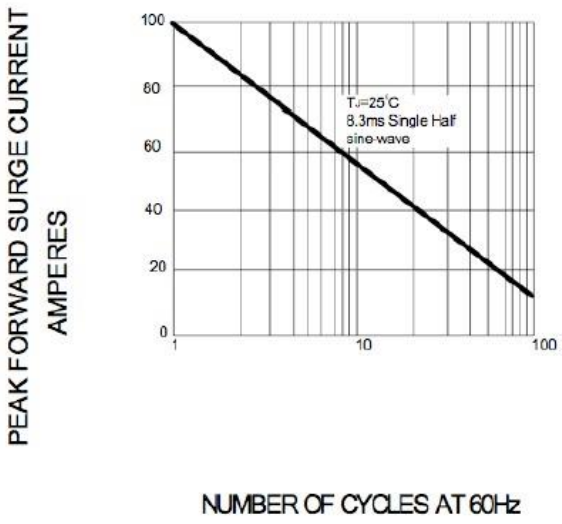
1.RISE TIME = 7ns MAX.INPUT

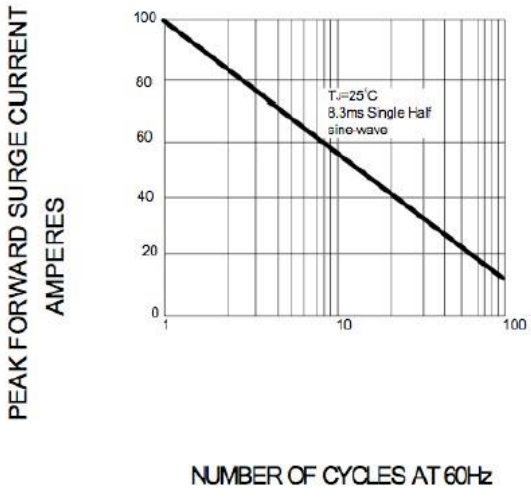
IMPEDANCE =1M . 22pF. SET TIME BASE FOR 10/20 ns/cm

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

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







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