

# MURF1060S

## Super Fast Rectifiers

### Features

- Low forward voltage drop.
- High current capability.
- Lead free product, compliance to RoHS
- Low leakage current
- RoHS compliant package

### Applications

For use in high frequency rectifier of switching mode power supplies, freewheeling diodes, dc-to-dc converters or polarity protection application.

### Mechanical Data

- Molding compound meets UL 94 V-0 flammability
- RoHS compliant, and commercial grade
- Terminals: Matte tin plated leads, solderable per

meets JESD 201

- Polarity: As marked
- Weight: 0.08grams, 2.24 grams

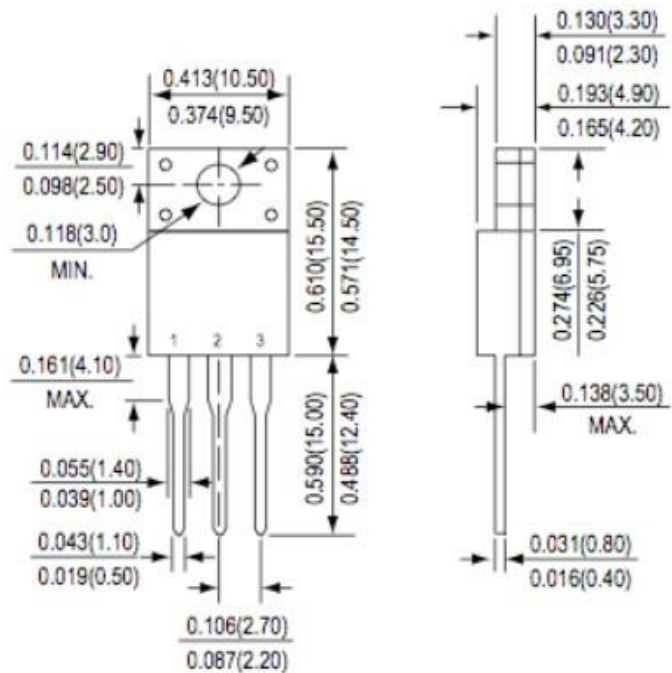
**Package type :** ITO-220AB

### Packing & Order Information

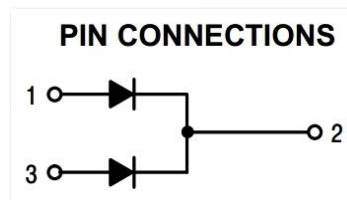
50/Tube ; 1,000/Box



**RoHS  
COMPLIANT**



### Graphic symbol



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	MURF1060S	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)	10	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150	A
Operating junction temperature range	TJ	-55 to +175	°C
Storage temperature range	TSTG	-55 to +175	°C

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#### Electrical characteristics (Tc=25°C unless otherwise noted)

Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage per diode at IF=10A, TA=25°C	VF	--	1.8	V
Maximum reverse current at working peak reverse voltage	IR	30		uA
Tj=25°C		250		uA
Reverse Recovery Time IFM=10A, -dIF/dt=50A/us, Tj=25°C	Trr	50		ns

#### Thermal characteristics (Tc=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Typical thermal resistance	MURF1060S	3	°C/W
	Rthja		

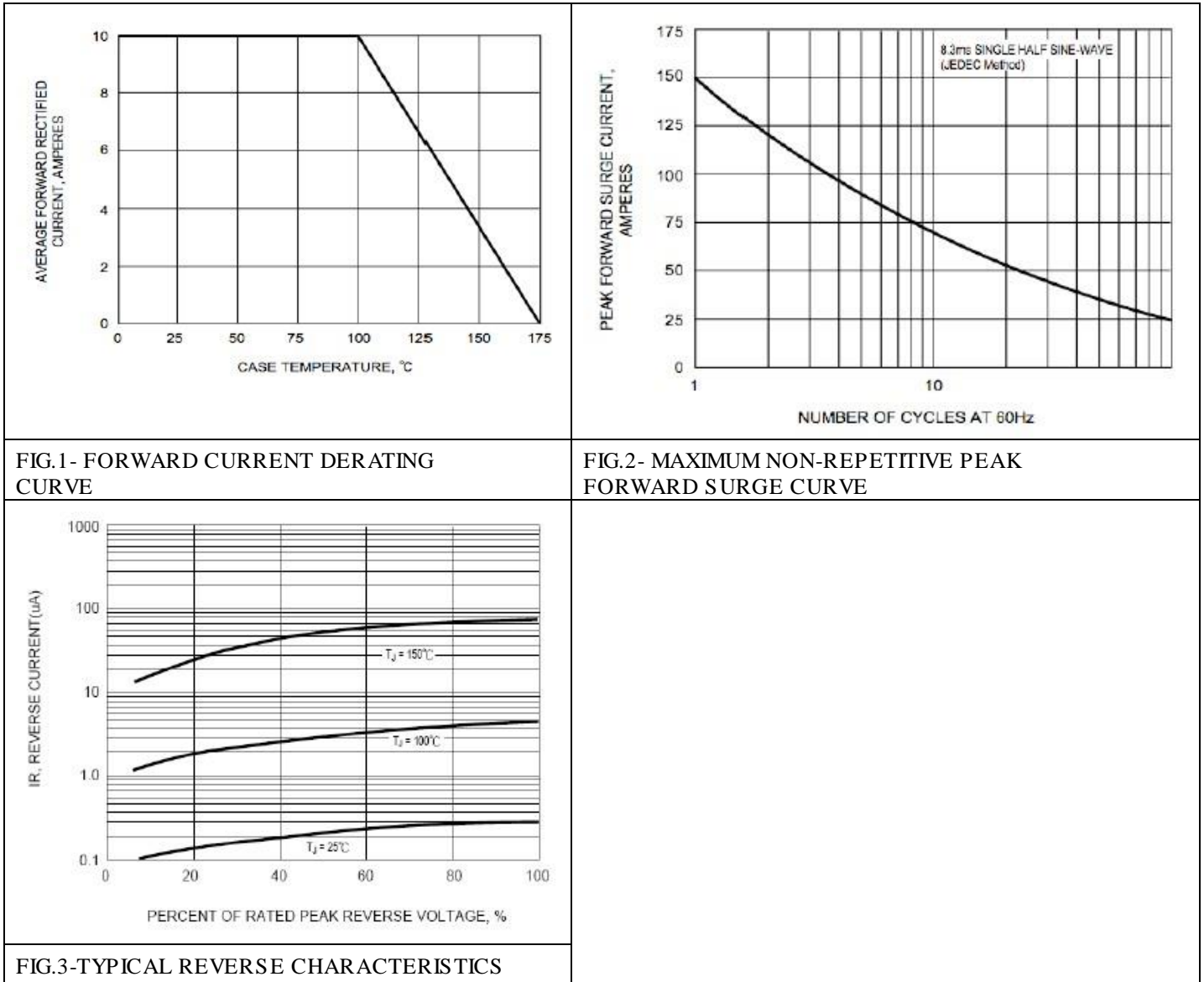
Notes :

- (1) Pulse test: 300 µs pulse width, 1 % duty cycle
- (2) Pulse test: Pulse width ≤ 40 ms

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■ TYPICAL CHARACTERISTICS @  $T_a=25^\circ\text{C}$  unless otherwise specified



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#### Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE

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