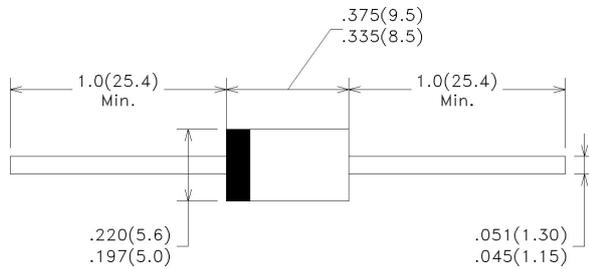


### Package Outline Dimensions in mm (inches)

#### DO27



Reverse Voltage - 600 V

Forward Current - 4.0 A

### Features

- Glass Passivated Die
- Superfast Recovery times for high efficiency
- Low leakage current
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

### Typical Applications

- For use in switching power Supplies.

### Mechanical Data

- Case:DO27 Plastic Package
- Polarity:Color band denotes cathode end

### Maximum ratings

Ratings at TA=25°C (unless otherwise specified)

Parameter	Symbol	MUR460	Unit
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	600	V
Maximum RMS voltage	V <sub>RMS</sub>	420	V
Maximum DC blocking voltage	V <sub>DC</sub>	600	V
Maximum average forward rectified current (Note1)	I <sub>F(AV)</sub>	4.0	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	125	A
Storage temperature range	T <sub>S</sub>	-55 to 150	°C
Operating Junction temperature range	T <sub>J</sub>	-55 to 150	°C
Thermal Resistance (Note1)	R <sub>thJA</sub>	20	°C/W

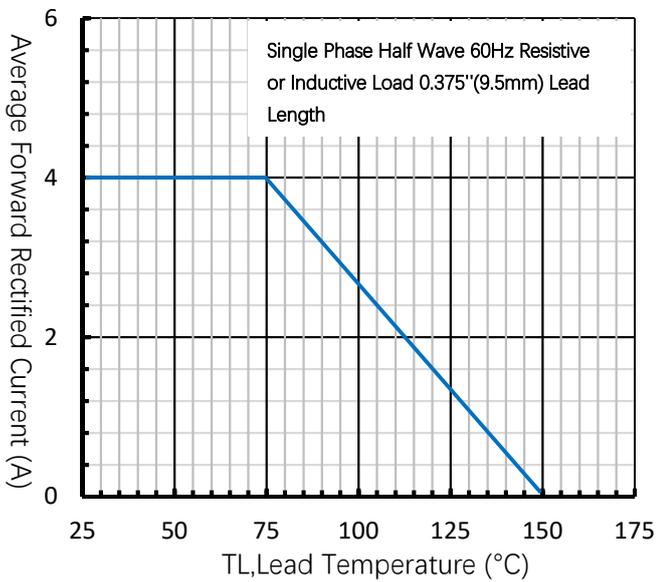
Note1: Vertical P.C.B. mounting, 12.7 mm lead length with 63.5 mm x 63.5 mm copper pad.

### Electrical characteristics

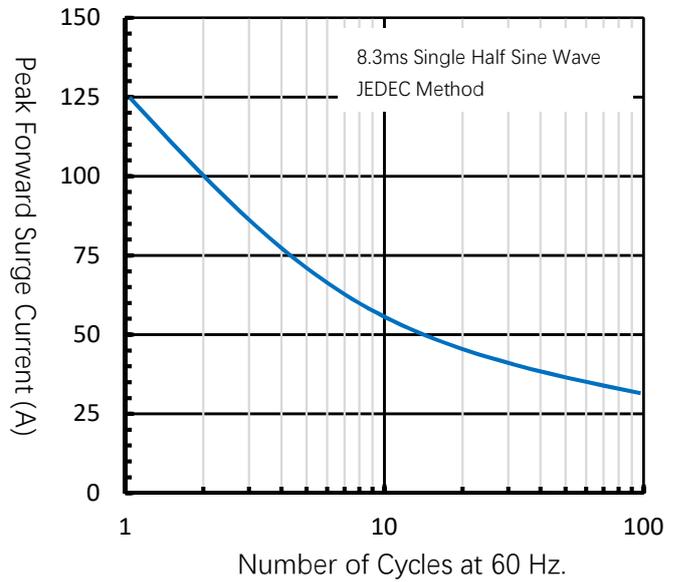
Ratings at TA=25°C (unless otherwise specified)

Parameter	Test Conditions	Symbol	MUR460	Unit
Maximum forward voltage	I <sub>F</sub> =4.0 A	V <sub>F</sub>	1.30	V
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I <sub>R</sub>	5.0	µA
	TA=125°C		100	
Maximum Reverse Recovery Time	RG1	T <sub>rr</sub>	50	ns

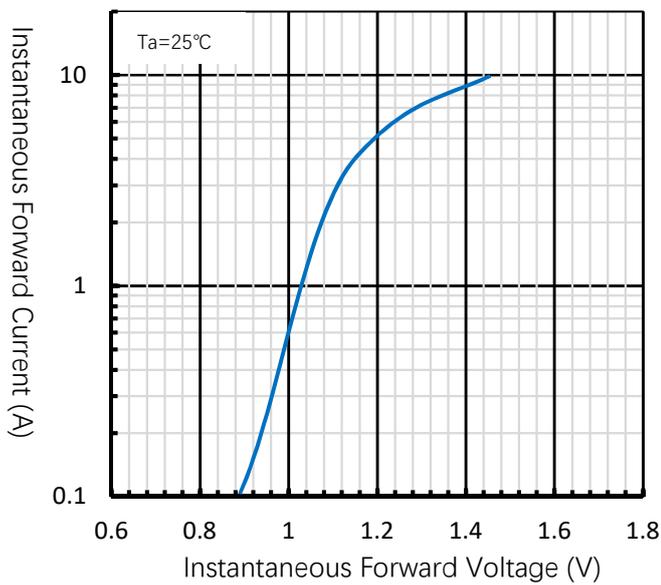
**Characteristics Curves**



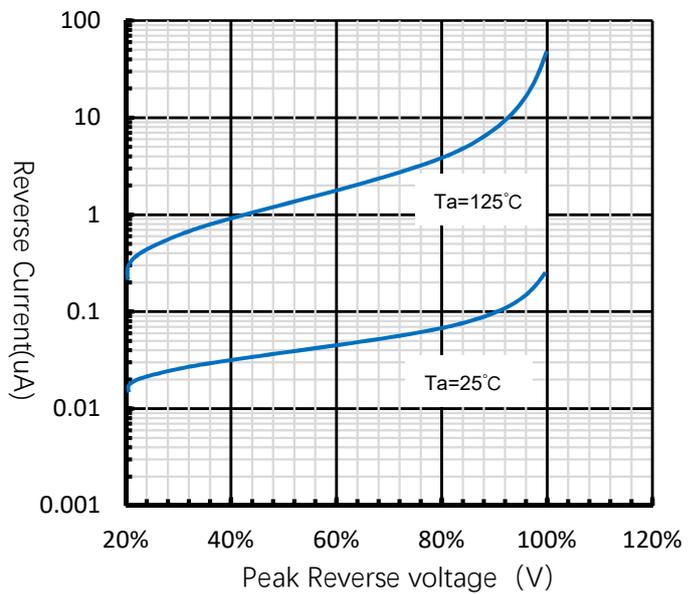
**Fig.1 Forward Current Derating Curve**



**Fig.2 Forward Surge Current Capability**



**Fig. 3 Typical Forward Characteristic**



**Fig. 4 Typical Reverse Characteristics**