



# MUR420G THRU MUR4100G

4.0 A Ultrafast Glass Passivated Rectifiers

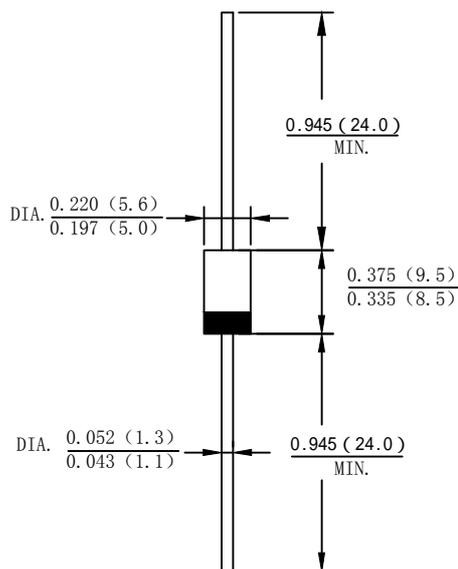
## Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

## Mechanical Data

- Case: Molded plastic DO-201AD
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For RoHS/Lead Free Version

Case: DO-201AD



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics @T<sub>A</sub> =25 °C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	SYMBOL	MUR420G	MUR430G	MUR440G	MUR460G	MUR480G	MUR4100G	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RM</sub>	200	300	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current. 375"(9.5mm) lead length @T <sub>L</sub> =100 °C	I <sub>F(AV)</sub>	4.0						A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	175						A
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t	127.09						A <sup>2</sup> s
Forward Voltage @IF=4.0A	V <sub>FM</sub>	0.95	1.35			1.7		V
Peak Reverse Current @T <sub>J</sub> =25 °C	I <sub>R</sub>	5.0						uA
At Rated DC Blocking Voltage @T <sub>J</sub> =125 °C		100						
Typical Junction Capacitance (Note 1)	C <sub>j</sub>	40						pF
Typical Thermal Resistance Junction to Ambient (Note 2)	R <sub>θ JA</sub>	42						°C/W
	R <sub>θ JC</sub>	12						
	R <sub>θ JL</sub>	8						
Maximum Reverse Recovery Time (Note 3)	T <sub>rr</sub>	50				75		ns
Operating Temperature Range	T <sub>J</sub>	-55 to +150						°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150						°C

Note:

1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
2. Leads maintained at ambient temperature at a distance of 9.5mm from the case For reference only
3. Reverse Recovery Test Conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1A, I<sub>rr</sub>=0.25A



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FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

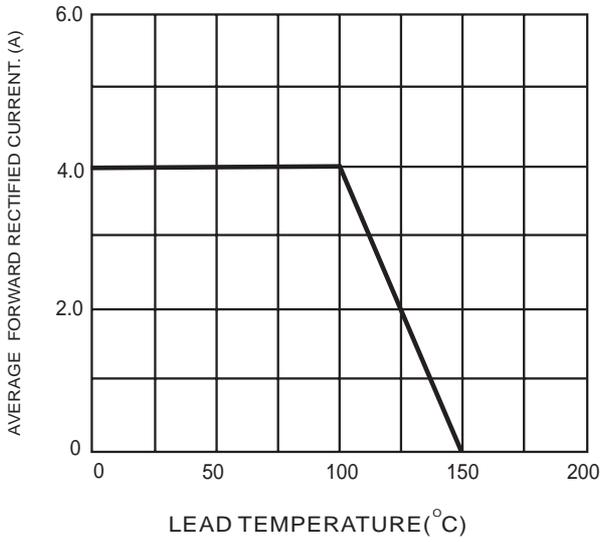


FIG.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

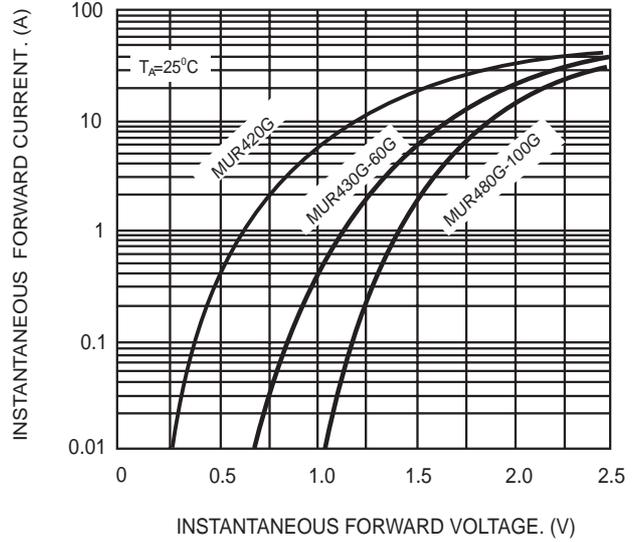


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

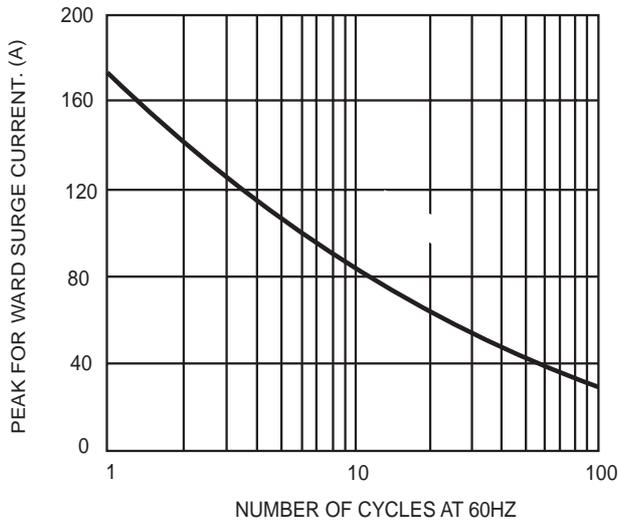
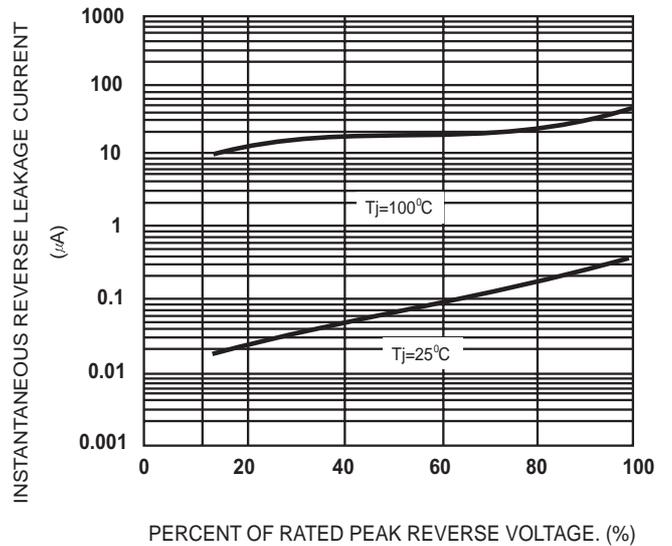


FIG.4- TYPICAL REVERSE CHARACTERISTICS





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