



MUR420 THRU MUR4100

4.0 A Ultrafast Glass Passivated Rectifiers

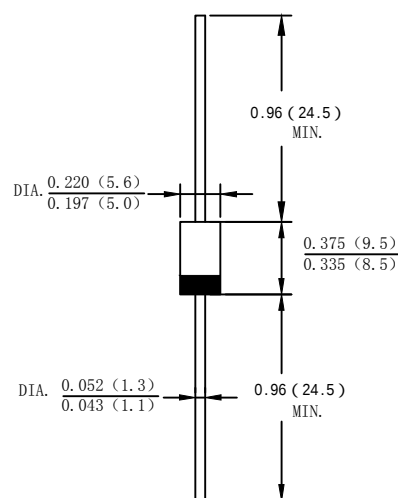
Features

- 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

DO-201AD



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	MUR420	MUR430	MUR440	MUR460	MUR480	MUR4100	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RM}	200	300	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current.375"(9.5mm) lead length@T _A =75 °C	I _O	4.0						A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	125						A
Forward Voltage @IF=4.0A	V _{FM}	1.35				1.7		V
Peak Reverse Current @T _J =25 °C	I _R	5.0						uA
At Rated DC Blocking Voltage @T _J =100 °C		100						
Typical Junction Capacitance (Note 2)	C _j	95						pF
Typical Thermal Resistance Junction to Ambient(Note 1)	R _{θ JA}	15						°C/W
Maximum Reverse Recovery Time(Note 3)	T _{rr}	50				75		ns
Operating Temperature Range	T _J	-55 to +125						°C
/Storage Temperature Range	T _{STG}	-55 to +150						°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1A$, $I_{rr} = 0.25A$

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FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

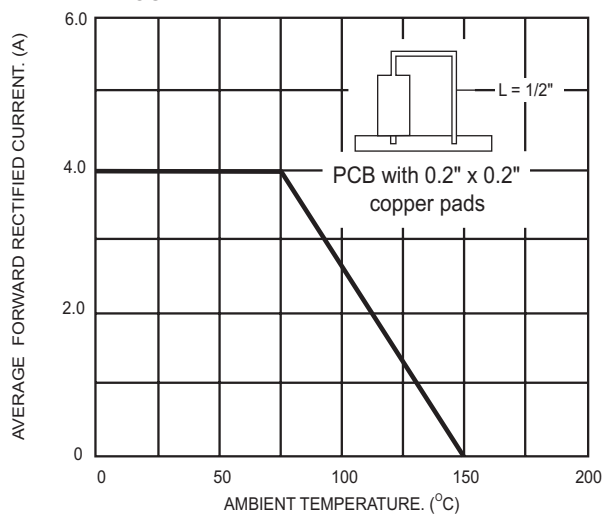


FIG.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

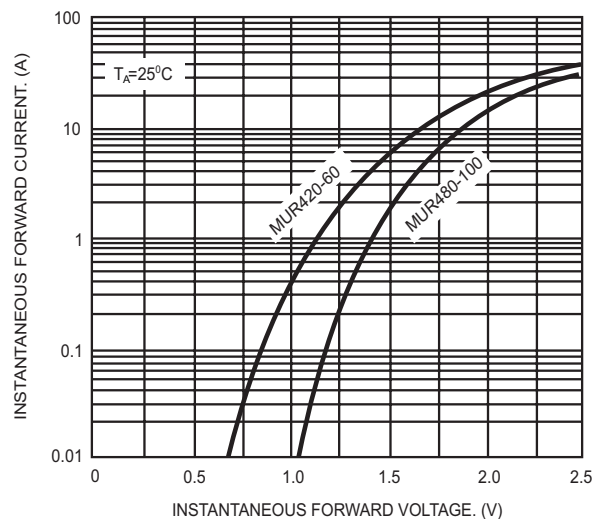


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

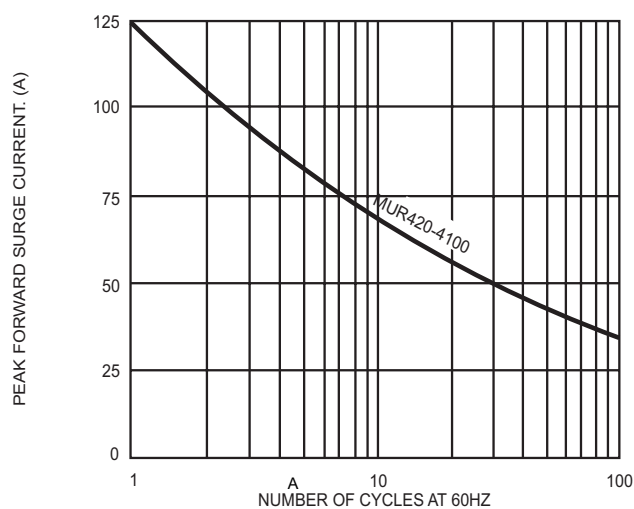


FIG.4- TYPICAL REVERSE CHARACTERISTICS

