

MUR420 THRU MUR4100

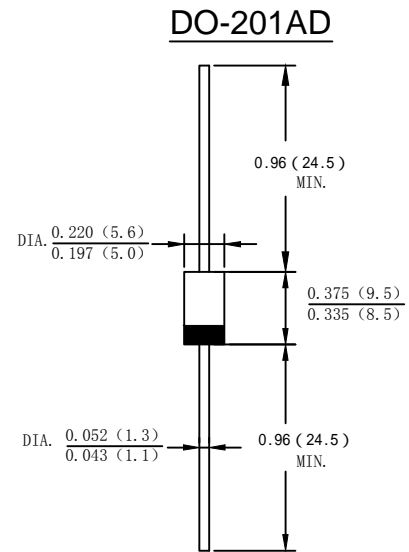
4.0 A Ultrafast Glass Passivated Rectifiers

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



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 @ $T_A = 75^\circ C$	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 @ $I_F = 4.0A$	V_{FM}	1.35				1.7		V
Peak Reverse Current @ $T_J = 25^\circ C$	I_R	5.0						uA
At Rated DC Blocking Voltage @ $T_J = 100^\circ C$		100						
Typical Junction Capacitance (Note 2)	C_j	95						pF
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	15						$^\circ C/W$
Maximum Reverse Recovery Time (Note 3)	T_{rr}	50				75		ns
Operating Temperature Range	T_J	-55 to +125						$^\circ C$
/Storage Temperature Range	T_{STG}	-55 to +150						$^\circ C$

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

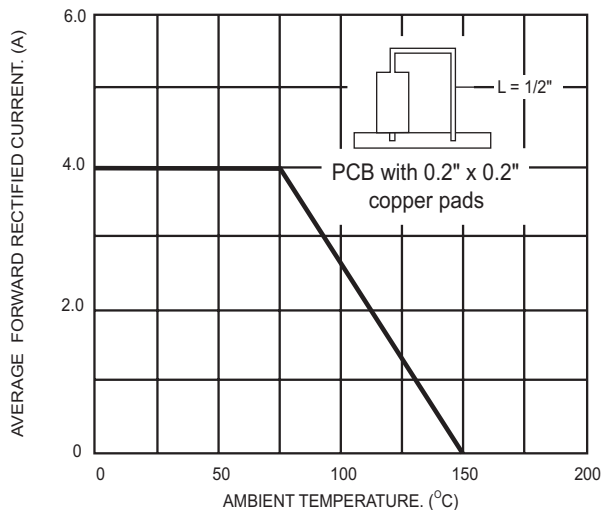


FIG.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

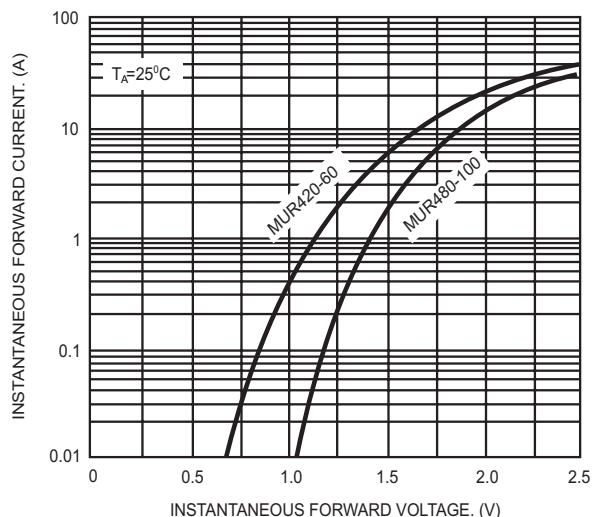


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

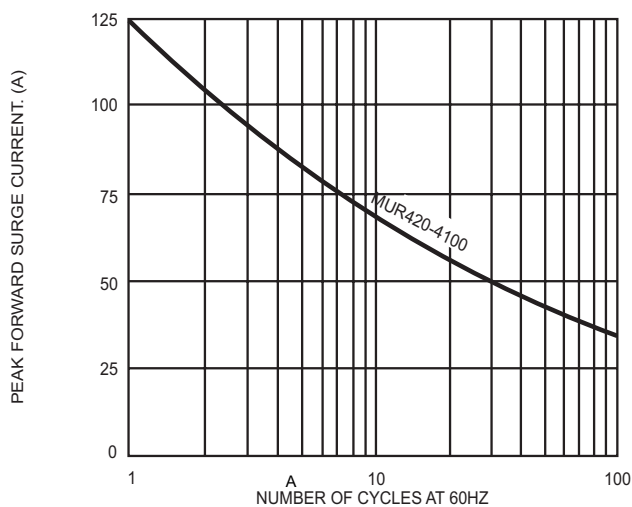


FIG.4- TYPICAL REVERSE CHARACTERISTICS

