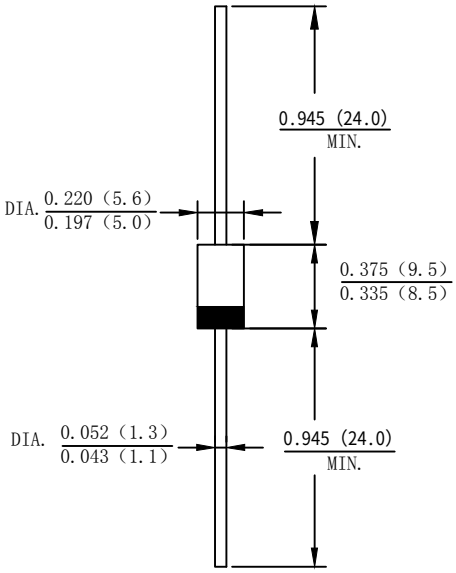
MUR420G THRU MUR4100G

4.0 A Ultrafast Glass Passivated Rectifiers

Features

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

Case: DO-201AD



Dimensions in inches and (millimeters)

Mechanical Data

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

Maximum Ratings and Electrical Characteristics @T_A =25℃ 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_{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_L =100℃	$I_{F(AV)}$	4.0						A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	175						A
I^2t Rating for Fusing (t < 8.3ms)	I^2t	127.09						A^2s
Forward Voltage @IF=4.0A	V_{FM}	0.95	1.35			1.7		V
Peak Reverse Current @T_J =25℃	I_R	5.0						uA
At Rated DC Blocking Voltage @T_J =125℃		100						
Typical Junction Capacitance (Note 1)	Cj	40						pF
Typical Thermal Resistance Junction to Ambient(Note 2)	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	42 12 8						℃/W
Maximum Reverse Recovery Time(Note 3)	Trr	50				75		ns
Operating Temperature Range	T_J	-55 to +150						℃
Storage Temperature Range	T_{STG}	-55 to +150						℃

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: IF=0.5A, IR=1A, Irr=0.25A

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

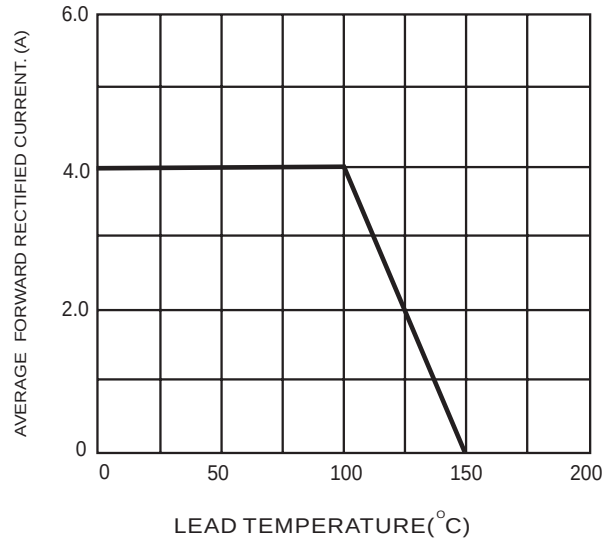


FIG.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

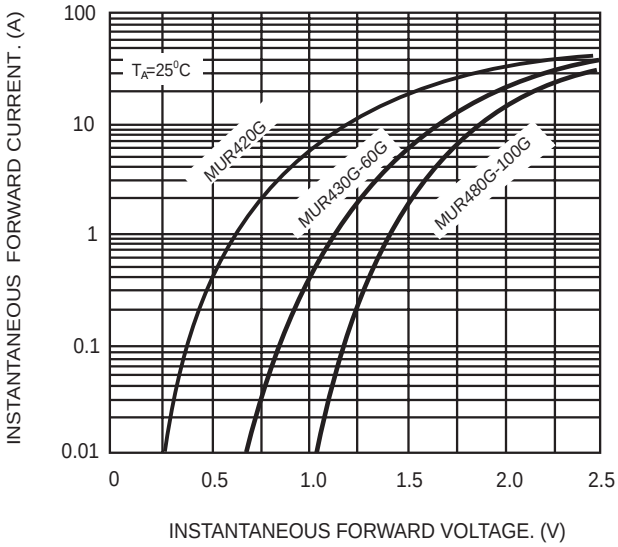


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

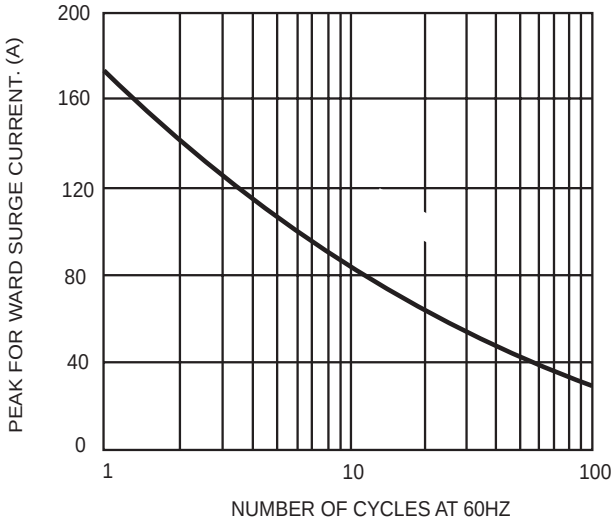
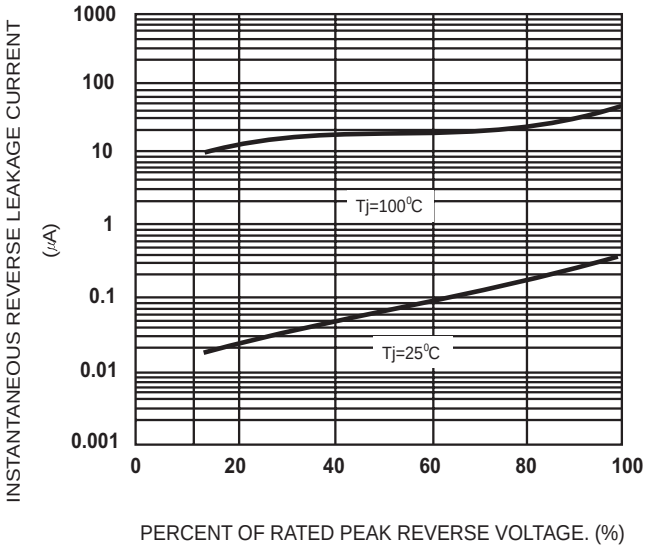


FIG.4- TYPICSL REVERSE CHARACTERISTICS



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