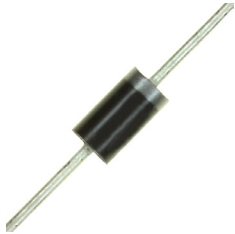


Ultra Fast Recovery Rectifier Diodes

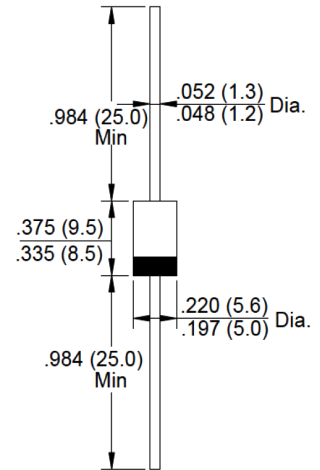
V_{RRM} - 200 Volts to 600 Volts, 4A

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**RoHS
Compliant**



DO-201AA (DO-27)



Dimensions : Inches (Millimetres)

Features

- Glass Passivated (GPP)
- Ultra fast switching for high efficiency
- Low leakage current
- High forward surge capability
- Solder dip 260°C, 40s
- Lead free
- Case style: DO-201AA (DO-27) molded plastic
- Weight:1.04 grams

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%.

Characteristics	Symbol	MUR420G	MUR440G	MUR460G	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	V
Maximum RMS Voltage	V_{RMS}	140	280	420	
Maximum DC Blocking Voltage	V_{DC}	200	400	600	
Maximum average forward rectified current 0.375"(9.5mm) lead length at $T_A = 55^\circ\text{C}$	$I_{(AV)}$	4			A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I_{FSM}	150			A
Max. Instantaneous forward voltage at 4A	V_F	1.28			V
Max. DC Reverse Current @ $T_J=25^\circ\text{C}$ Rated DC Blocking Voltage @ $T_J=100^\circ\text{C}$	I_R	10 150			μA
Maximum Reverse Recovery Time (Note 1)	T_{RR}	45	50		nS
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	20			$^\circ\text{C}/\text{W}$
Typical Junction Capacitance (Note 2)	C_J	60			pF
Operating Junction Temperature Range	T_J	-65 to +150			$^\circ\text{C}$
Storage Temperature Range	T_{STG}				

Notes:

1. Reverse recovery condition $I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{RR} = 0.25\text{A}$
2. Measured at 1MHz and applied reverse voltage of 4V DC
3. Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length,P.C.B. mounted

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Ultra Fast Recovery Rectifier Diodes

V_{RRM} - 200 Volts to 600 Volts, 4A



Rating and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING

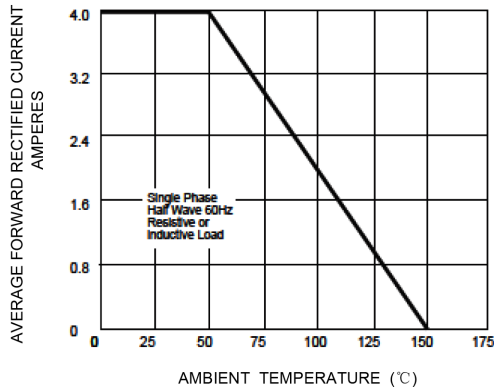


FIG. 2 –MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

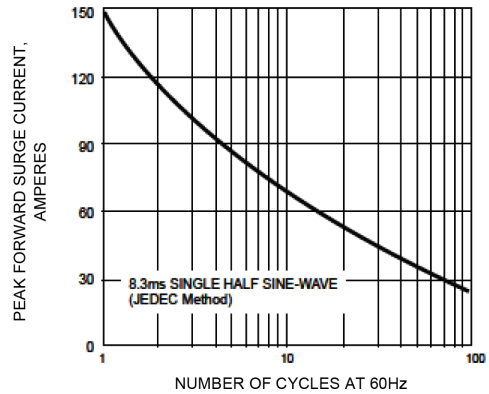


FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

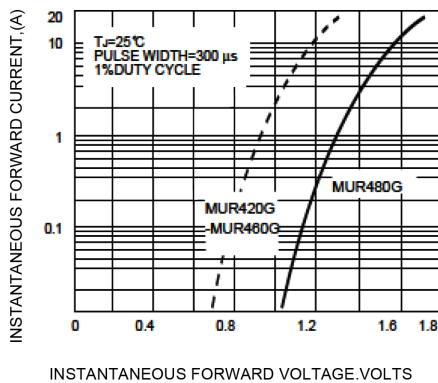
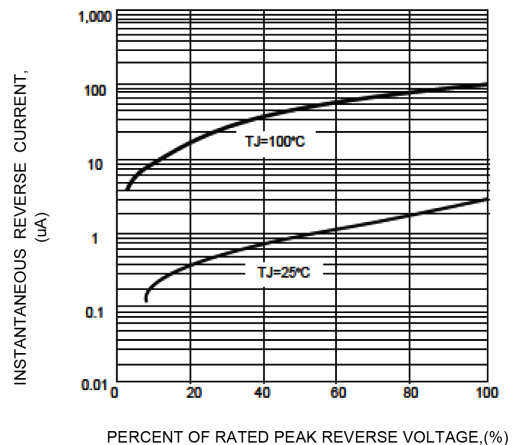


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Part Number Table

Description	Part Number
Rectifier Diode, Ultra Fast, 200V, 4A, DO-201AA (DO-27)	MUR420G
Rectifier Diode, Ultra Fast, 400V, 4A, DO-201AA (DO-27)	MUR440G
Rectifier Diode, Ultra Fast, 600V, 4A, DO-201AA (DO-27)	MUR460G

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