



# MUR420H THRU MUR460H

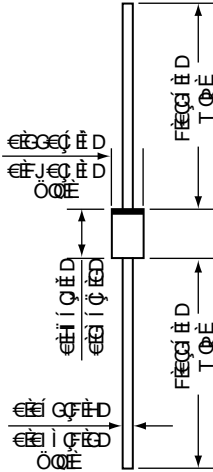
## SINTERED GLASS PASSIVATED ULTRA FAST RECTIFIER

Reverse Voltage - 200 to 600 Volts

Forward Current - 4.0 Amperes

**PATENTED**

DO-201AD



DO-201AD

**SUPEREX II**™



### FEATURES

- \* Ultra fast recovery time
- \* Low forward voltage drop
- \* High reliability
- \* Sintered glass passivated
- \* Available in various packages
- \* High efficiency
- \* Low thermal resistance
- \* High surge current capability
- \* High peak current capability
- \* High average current capability

### MECHANICAL DATA

Case: DO-201AD  
 Terminals: Au wire bonds  
 Polarity: Cathode marked  
 Weight: 0.05g

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	MUR420H	MUR460H	UNITS
Reverse Voltage	V <sub>RRM</sub>	600	600	V
Forward Current (continuous)	I <sub>F</sub>	4.0	4.0	A
Forward Current (peak)	I <sub>FM</sub>	10.0	10.0	A
Reverse Current (continuous)	I <sub>R</sub>	1.0	1.0	mA
Forward Voltage (at I <sub>F</sub> = 4.0A)	V <sub>FM</sub>	1.0	1.0	V
Reverse Voltage (at I <sub>R</sub> = 1.0mA)	V <sub>RM</sub>	600	600	V
Forward Voltage (at I <sub>F</sub> = 1.0A)	V <sub>FM1</sub>	0.8	0.8	V
Forward Voltage (at I <sub>F</sub> = 0.1A)	V <sub>FM0.1</sub>	0.6	0.6	V
Reverse Current (at V <sub>RM</sub> = 600V)	I <sub>R</sub>	1.0	1.0	mA
Reverse Current (at V <sub>RM</sub> = 200V)	I <sub>R</sub>	0.5	0.5	mA
Reverse Current (at V <sub>RM</sub> = 100V)	I <sub>R</sub>	0.3	0.3	mA
Reverse Current (at V <sub>RM</sub> = 50V)	I <sub>R</sub>	0.2	0.2	mA
Reverse Current (at V <sub>RM</sub> = 25V)	I <sub>R</sub>	0.1	0.1	mA

NOTES: (1) Pulse width limited by junction temperature.  
 (2) Forward current limited by junction temperature.  
 (3) Reverse current limited by junction temperature.

# RATINGS AND CHARACTERISTIC CURVES MUR420H THRU MUR460H

FIG.1 - FORWARD CURRENT DERATING CURVE

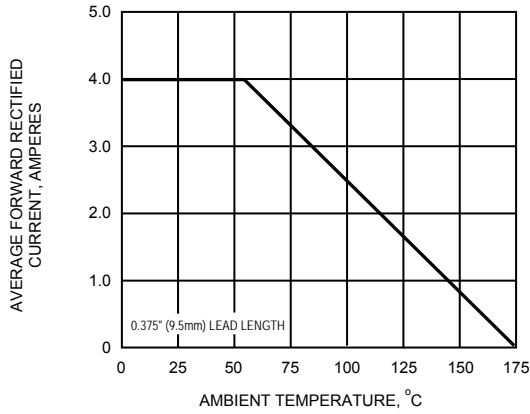


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

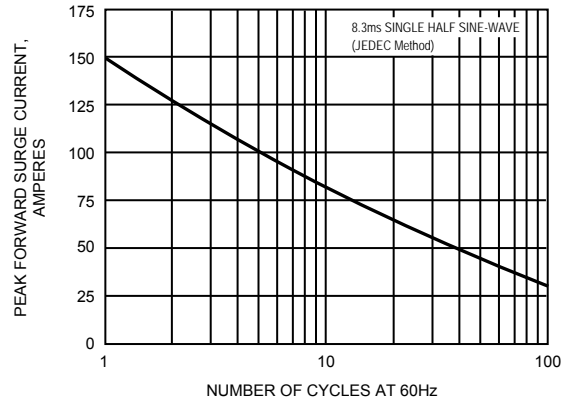


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

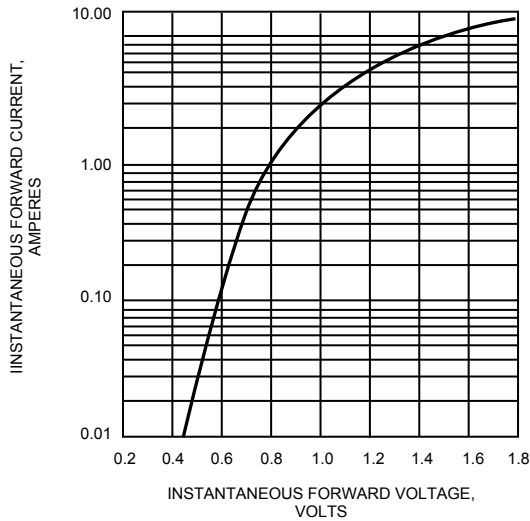


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

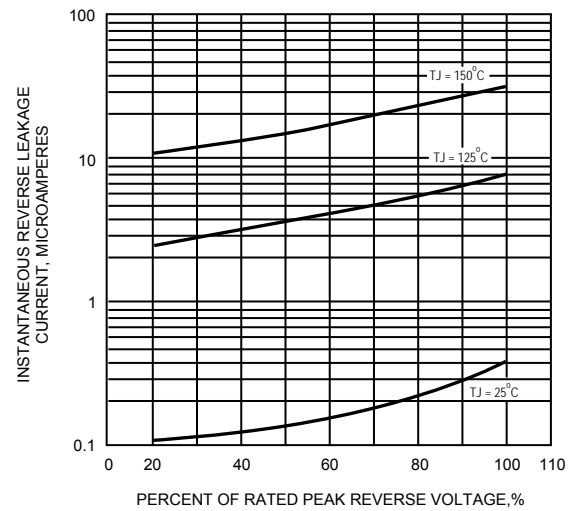


FIG.5 - TYPICAL JUNCTION CAPACITANCE

