

MUR420 - MUR460



4.0AMPS. Ultrafast Glass Passivated Rectifiers DO-201AD

Features

- Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- ♦ Ultrafast recovery time for high efficiency
- ♦ Excellent high temperature switching
- ♦ Glass passivated junction
- Green compound with suffix "G" on packing code & prefix "G" on datecode



Dimensions in inches and (millimeters)

Marking Diagram

= Year

= Work Week

= Specific Device Code

= Green Compound

ΡN

G

Y WW

P/N S≣GYWW

Mechanical Data

- ♦ Cases: Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- ♦ Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode
- ♦ High temperature soldering guaranteed: 260°C/10s/.375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ♦ Mounting position: Any
- ♦ Weight:1.2 grams

Maximum Ratings and Electrical Characteristics

Rating at 25 $^\circ\!C$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Symbol	MUR420	MUR440	MUR460	Units
V _{RRM}	200	400	600	V
V _{RMS}	140	280	420	V
V _{DC}	200	400	600	V
I _{F(AV)}	4			А
I _{FSM}	125			А
V _F	0.89	1.28		V
I _R	5 150	10 250		uA
Trr	25	50		ns
Cj	65		pF	
T _{FR}	25	50		nS
R _{eJA}	28			^o C/W
TJ	-65 to + 150			OO
T _{STG}	-65 to + 150			OO
	$\begin{tabular}{ c c c c } \hline Symbol \\ \hline V_{RRM} & V_{RMS} \\ \hline V_{DC} & I_{F(AV)} \\ \hline I_{F(AV)} & I_{FSM} \\ \hline V_F & I_R \\ \hline U_R & I_R \\ \hline U_R$	$\begin{array}{ c c c c c } Symbol & MUR420 \\ \hline V_{RRM} & 200 \\ \hline V_{RMS} & 140 \\ \hline V_{DC} & 200 \\ \hline I_{F(AV)} \\ \hline I_{F(AV)} \\ \hline I_{FSM} \\ \hline V_{F} & 0.89 \\ \hline V_{F} & 0.89 \\ \hline I_{R} & 5 \\ 150 \\ \hline T_{R} & 25 \\ \hline Cj \\ \hline T_{FR} & 25 \\ \hline R_{\theta,JA} \\ \hline T_{STG} \\ \hline \end{array}$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Note 1: Pulse lest: tp = 300uS, Duty Cycle<1%

Note 2: Reverse Recovery Test Condition:IF=0.5A, IR=1.0A, IRR=0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.







-1.0A

► 1cm

SET TIME BASE FOR 5/ 10ns/ cm

Ⅎ

max. Sourse Impedance=

NOTES: 1. Rise Time=7ns max. Input Impedance 1 megohm 22pf 2. Rise Time=10ns max. Sourse Impeda 50 ohms

Version:D12