



## Features:

- High surge capability
- Low leakage
- Low forward voltage drop
- Ultra fast switching speed for high efficiency
- Reverse voltage: 200 to 600 Volts
- Forward current: 4 Amperes

## 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+	MUR440+	Units
Max. Recurrent Peak Reverse Voltage	$V_{RRM}$	200	400	V
Max. RMS Voltage	$V_{RMS}$	140	280	
Max. DC Blocking Voltage	$V_{DC}$	200	400	
Max. Average Forward Rectified Current @ $T_A = 55^\circ C$	$I_{(AV)}$	4		A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	$I_{FSM}$	150		
Max Instantaneous Forward Voltage $I_{FM} = 4A @ T_A = 25^\circ C$ (Note 3)	$V_F$	1.35		V
Max. DC Reverse Current at $T_A = 25^\circ C$ Rated DC Blocking Voltage at $T_A = 125^\circ C$	$I_R$	10 50		$\mu A$ $\mu A$
Max. Reverse Recovery Time (Note 1)	$T_{RR}$	60		nS
Typical Junction Capacitance (Note 2)	$C_J$	80		pF
Typical Thermal Resistance	$R_{\theta JA}$	20		$^\circ C/W$
Operating Temperature Range	$T_J$	-55 to +150		$^\circ C$
Storage Temperature Range	$T_{STG}$			

### Notes:

1. Measured with  $I_F = 0.5A$ ,  $I_R = 1A$ ,  $I_{RR} = 0.25A$
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
3. Pulse test: Pulse width 300 $\mu$  sec, Duty cycle 1%
4. The typical data above is for reference only

## Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

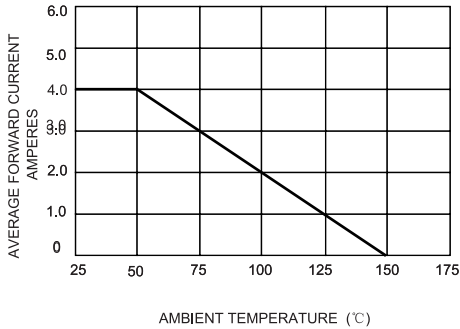


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

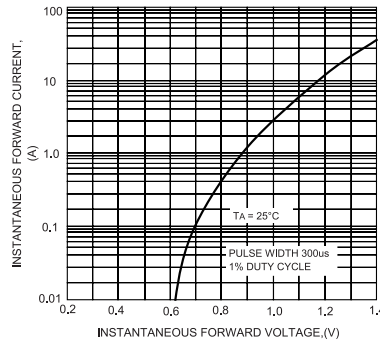
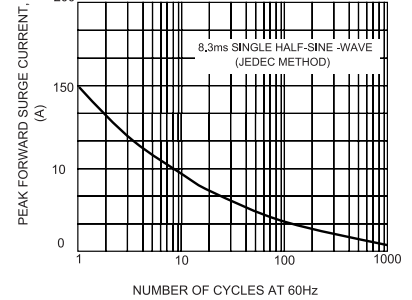
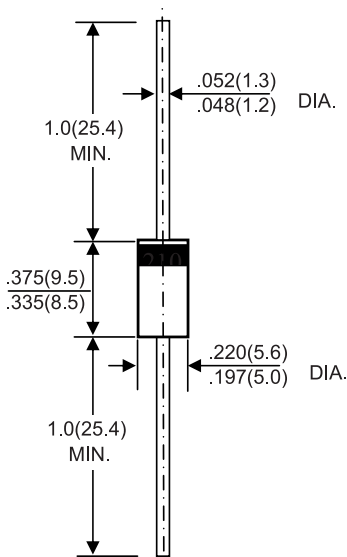


FIG. 3 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



## Dimensions:

**DO- 27**



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number
Diode, Fast, 4A, 200V	MUR420+
Diode, Fast, 4A, 400V	MUR440+

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.