



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°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°C (Note 3)	V _F	1.35		V
Max. DC Reverse Current at T _A = 25°C Rated DC Blocking Voltage at T _A = 125°C	I _R	10 50		μA μA
Max. Reverse Recovery Time (Note 1)	T _{RR}	60		nS
Typical Junction Capacitance (Note 2)	C _J	80		pF
Typical Thermal Resistance	R _{θJA}	20		°C/W
Operating Temperature Range	T _J	-55 to +150		°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 μ sec, Duty cycle 1%
4. The typical data above is for reference only

Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

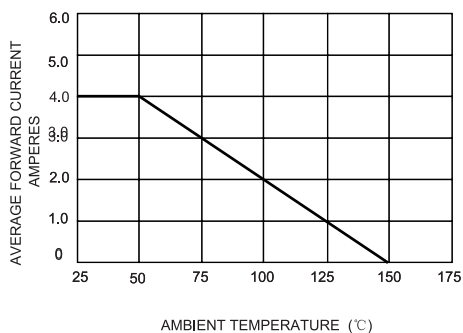


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

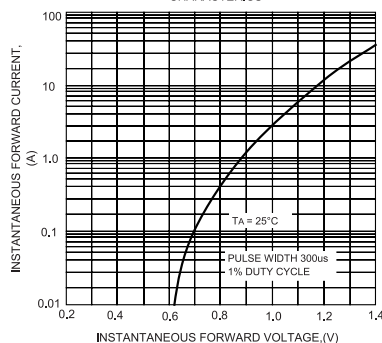
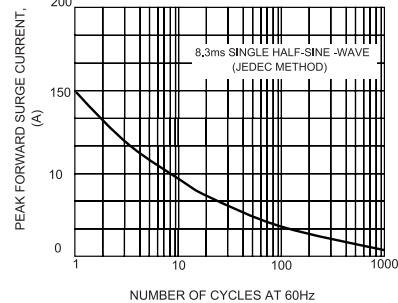
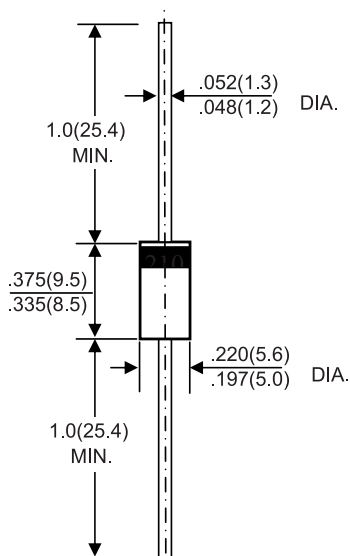


FIG. 3 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



Dimensions:

DO- 27



Dimensions : Inches (Millimetres)

Part Number Table

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

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