

Super Fast Recovery Rectifier

DO-201AD

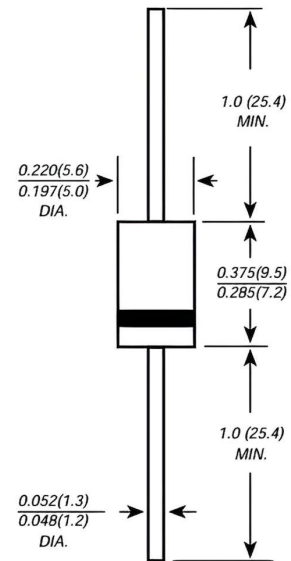
Parameter	Value	Unit
V_{RRM}	50~1000	V
$I_{F(AV)}$	4.0	A

Features

- High Surge Capability
- Low Leakage
- Low Forward Voltage Drop
- Super Fast Switching Speed For High Efficiency

Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C



Dimensions in inches and (millimeters)

Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR405	50V	35V	50V
MUR410	100V	70V	100V
MUR415	150V	105V	150V
MUR420	200V	140V	200V
MUR440	400V	280V	400V
MUR460	600V	420V	600V
MUR480	800V	550V	800V
MUR4100	1000V	700V	1000V

Electrical Characteristics (at $T_J = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Conditions
Average Forward Current	$I_{F(AV)}$	4.0A	$T_A=55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage MUR405-415 MUR420-460 MUR480-4100	V_F	1.00V 1.35V 1.85V	$I_{FM}=4.0A$; $T_A=25^\circ\text{C}^*$

Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5uA 150uA	$T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$
Maximum Reverse Recovery Time MUR405-415 MUR420-460 MUR480-4100	T_{rr}	45ns 50ns 75ns	$I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$
Typical Junction Capacitance MUR405-460 MUR480-4100	C_J	80pF 50pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

*Pulse test: Pulse width 300 m sec, Duty cycle 1%

Typical characteristics

Fig 1. Typical Forward Characteristics

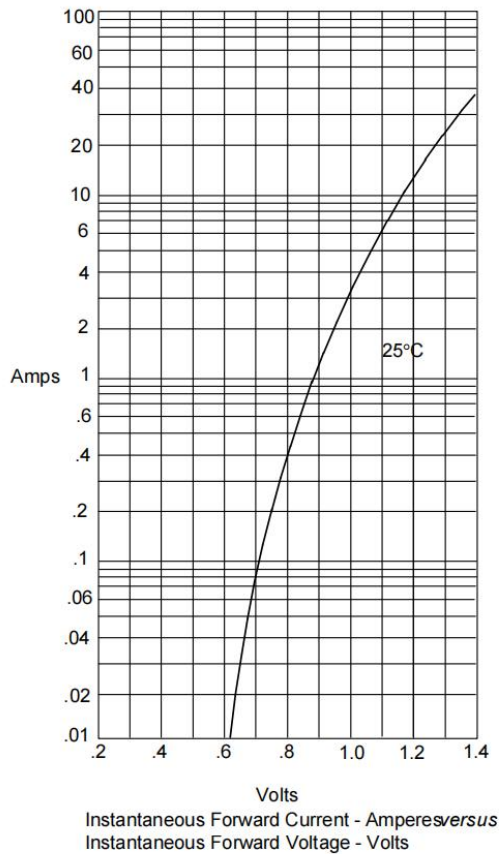


Fig 2. Forward Derating Curve

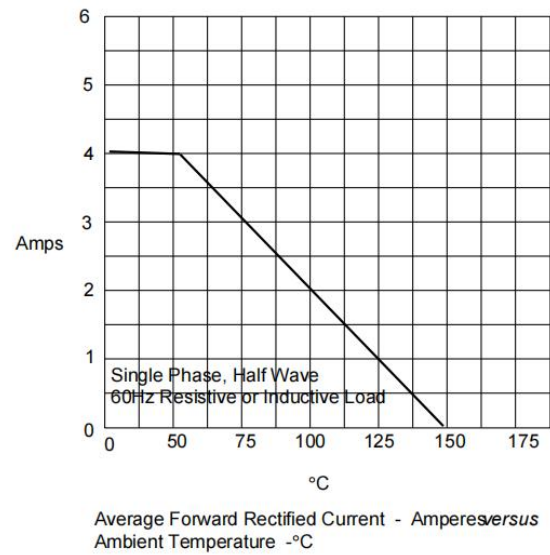
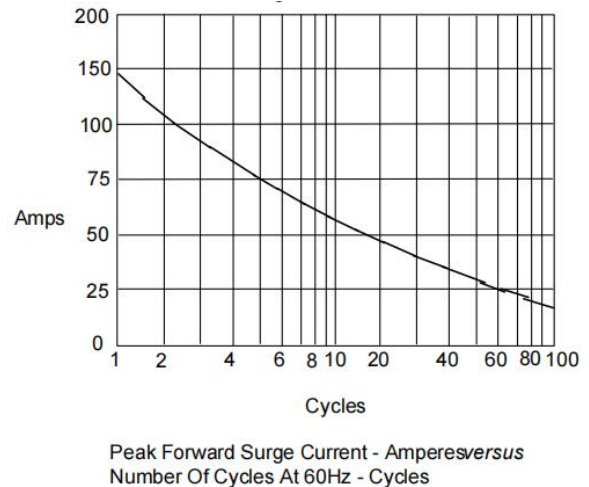


Fig 3. Peak Forward Surge Current



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