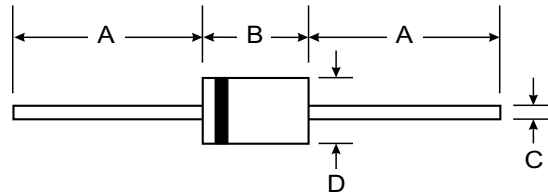


Features

- High current capability
 - High surge current capability
 - High reliability
 - Low reverse current
 - Low forward voltage drop
 - Fast switching for high efficiency
- Pb / RoHS Free



DO-201AD		
Dim	Min	Max
A	25.40	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in mm		

Mechanical Data

- Case : DO-201AD Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 1.21 gram

Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

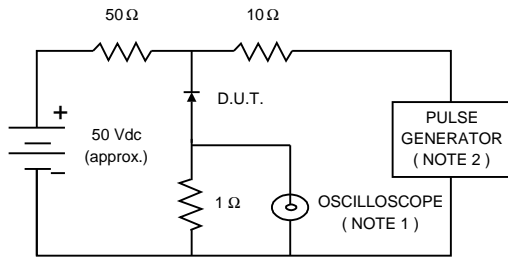
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RATING	SYMBOL	MUR410	MUR415	MUR420	UNIT
Maximum Peak Reverse Voltage	V_{RM}	100	150	200	V
Maximum RMS Voltage	V_{RMS}	70	105	140	V
Maximum Reverse Voltage	V_R	100	150	200	V
Maximum Average Forward Current $T_a = 80^\circ\text{C}$	$I_{F(AV)}$	4.0			A
Maximum Non-repetitive Peak Forward Surge Current	I_{FSM}	125			A
Maximum Peak Forward Voltage at $I_F = 4\text{ A}$	V_F	0.89			V
Maximum Reverse Current at $V_R = V_{RM}$ $T_j = 25^\circ\text{C}$	I_R	5.0			μA
Maximum Reverse Current at $V_R = V_{RM}$ $T_j = 150^\circ\text{C}$	$I_{R(H)}$	150			μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	25			ns
Junction Temperature Range	T_J	-65 to + 175			$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 65 to + 175			$^\circ\text{C}$

Note:

(1) Reverse Recovery Test Conditions : $I_F = 0.5\text{A}$, $I_R = 1\text{A}$; $I_{RR} = 0.25\text{ A}$

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



- NOTES : 1. Rise Time = 7 ns max., Input Impedance = 1 megaohm, 22 pF.
 2. Rise Time = 10 ns max., Source Impedance = 50 ohms.
 3. All Resistors = Non-inductive Types.

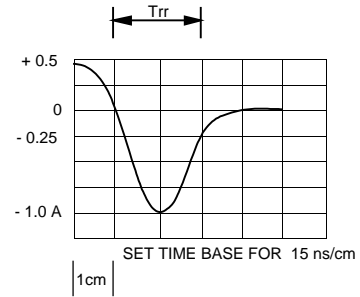


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

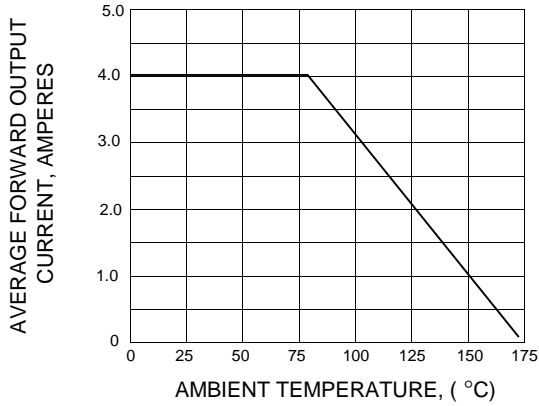


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

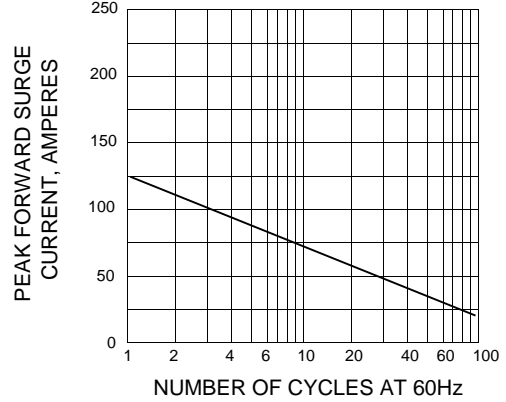


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

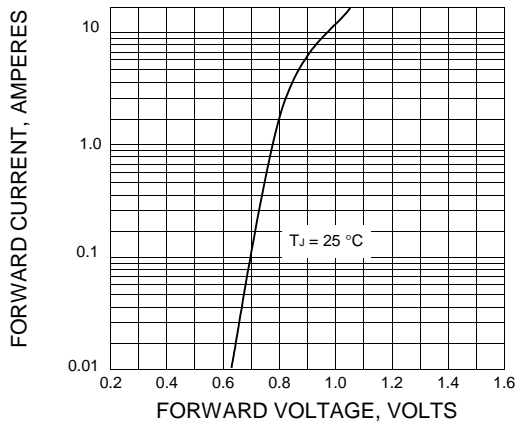


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

