

MUR610 THUR MUR660

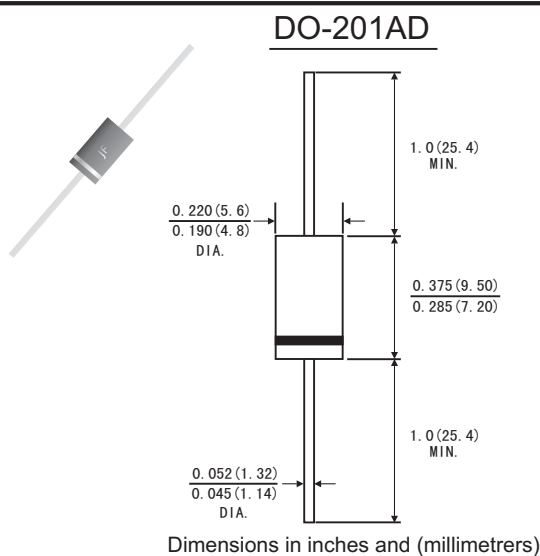
SUPER FAST RECTIFIER
 Reverse Voltage: 100 to 600 Volts
 Forward Current: 6.0 Amperes

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Good for switching mode application
- Component in accordance to RoHS 2011/65/EU
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

MECHANICAL DATA

- Case: JEDEC DO-201AD molded plastic body
- TerMInals: Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any



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%.)

	Symbols	MUR610	MUR620	MUR630	MUR640	MUR650	MUR660	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	300	400	500	600	Volts
Maximum RMS Voltage	V_{RMS}	70	140	210	280	350	420	Volts
Maximum DC Blocking Voltage	V_{DC}	100	200	300	400	500	600	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length	I_{AV}	6.0						Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150						Amps
Maximum Instantaneous Forward Voltage at 6.0 A	V_F	0.95		1.3		1.7		Volts
Maximum DC Reverse Current At Rated DC Blocking Voltage	$T_A=25^\circ C$	5.0						μA
	$T_A=100^\circ C$	100						
Maximum Reverse Recovery Time(Note1)	t_{rr}	35						ns
Typical Junction Capacitance(Note2)	C_j	50						pF
Typical Thermal Resistance(Note3)	$R_{\theta JA}$	25						$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150						$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150						$^\circ C$

Note: 1. Reverse Recovery Test conditions: $I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$.

2. Measured at 1MHz and applied reverse voltage of 4.0 Volts.

RATINGS AND CHARACTERISTIC CURVES MUR610 THRU MUR660

FIG.1-MAXIMUM AVERAGE FORWARD CURRENT DERATING

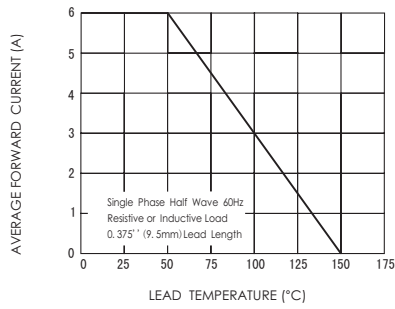


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

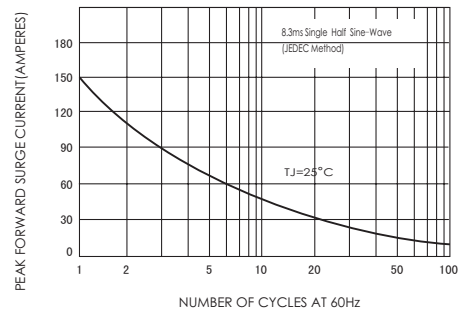


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

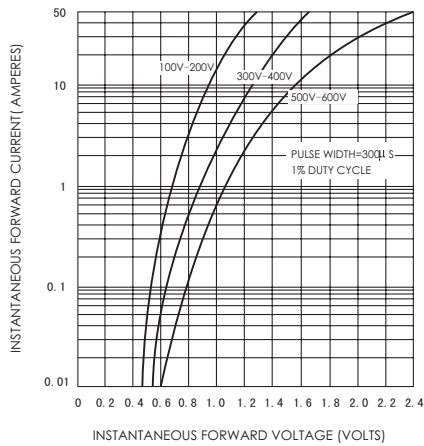


FIG.4-TYPICAL REVERSE CHARACTERISTICS

