



GLASS PASSIVATED HIGH EFFICIENCY RECTIFIER

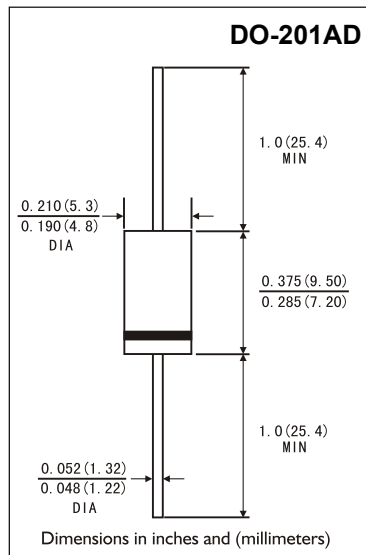
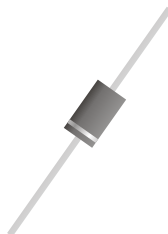
MUR405 - MUR4100

REVERSE VOLTAGE - 50 to 1000 V

FORWARD CURRENT - 4 A

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low forward voltage drop
- High current capability , High reliability
- Low power loss , High efficiency
- High surge current capability
- High speed switching , Low leakage
- High temperature soldering guaranteed:260 °C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



MECHANICAL DATA

- Case: JEDEC DO-201AD molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Lead: Plated axial leads, solderable per MIL-STD-750, method 2026*Polarity:
- Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.042ounce, 1.19 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified, Single phase, half wave, resistive or inductive load. For capacitive load, derate by 20%.

	Symbols	MUR 405	MUR 410	MUR 420	MUR 430	MUR 440	MUR 460	MUR 480	MUR 4100	Units	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	600	800	1000	Volts	
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	700	Volts	
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	Volts	
Maximum Average Forward Rectified Current 0.375"(9.5mm)lead length at TA=65°C	I(AV)	4.0								AmpS	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150								Amps	
Maximum Instantaneous Forward Voltage at 4.0 A	VF	1.0		1.35			1.85			Volts	
Maximum DC Reverse Current at rated DC blocking voltage	TA=25 °C	10.0								µA	
	TA=100°C	50									
Maximum Average Forward Rectified Current 0.375"(9.5mm)lead length at TA=55°C	IF(AV)	4.0		4.0			4.0			Amps	
Typical reverse recovery time (Note1)	Trr	45		60			75			ns	
Typical junction capacitance(Note2)	Cj	80						50			Pf
Operating junction and storage temperature range	Tj TSTG	-65 to +175								°C	

Note : 1.Test conditions: IF=0.5 A,IR=1.0 A,IRR=0.25 A.

2. Measured at 1 MHz and applied reverse voltage of 4 Volts

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Email: sales@micindia.com

Website: www.micindia.com



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RATINGS AND CHARACTERISTIC CURVES MUR405 - MUR4100

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

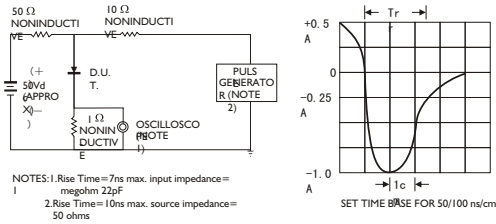


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

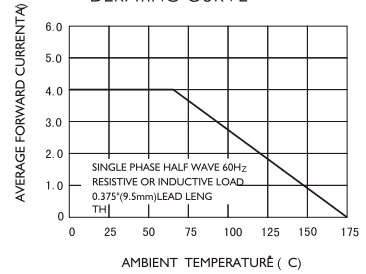


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

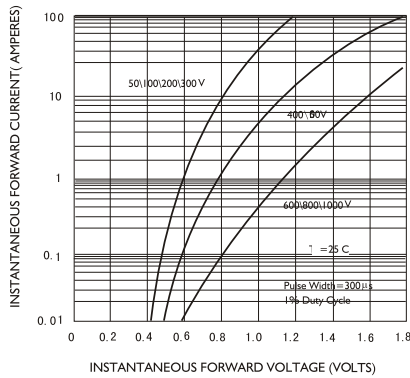


FIG.4-TYPICAL REVERSE CHARACTERISTICS

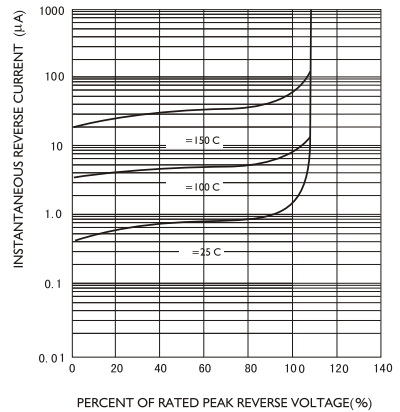


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

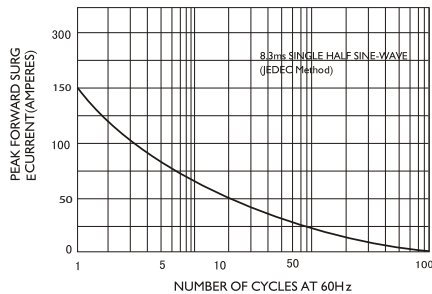
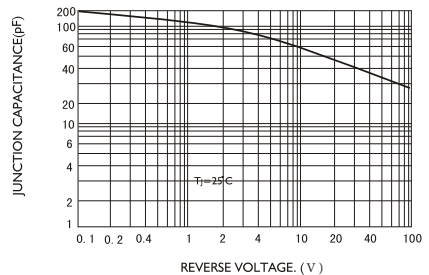


FIG.6-TYPICAL JUNCTION CAPACITANCE



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