SEMICONDUCTOR

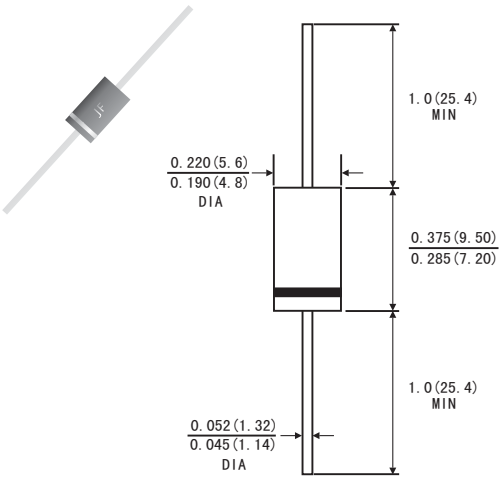
MUR405G THUR MUR460G

SUPER FAST RECTIFIER
Reverse Voltage: 50 to 600 Volts
Forward Current:4.0Amperes

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℃/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

DO-201AD



Dimensions in inches and (millimeters)

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

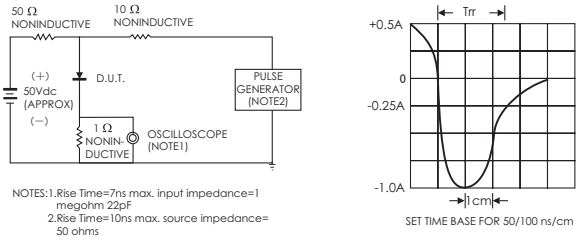
(Rating at 25℃ ambient temperature unless otMURwise specified. Single phase ,half wave ,60Hz,resistive or inductive load. For capacitive load, derate current by 20%.)

	Symbols	MUR 405G	MUR 410G	MUR 420G	MUR 430G	MUR 440G	MUR 450G	MUR 460G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm)lead length	$I_{(AV)}$	4.0							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 4.0 A	V_F	1.0			1.28				Volts
Maximum DC Reverse Current at rated DC blocking voltage T_A=25°C	I_R	10.0							μA
Maximum DC Reverse Current at rated DC blocking voltage T_A=100°C	I_R	50							μA
Maximum reverse recovery time(Note1)	T_{rr}	45			60				ns
Typical junction capacitance(Note2)	C_J	80							PF
Operating junction and storage temperature range	T_J / T_{STG}	-55 to+150 / -55 to+150							°C

Note: 1.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.

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



NOTES:1.Rise Time=7ns max. input impedance=1 megohm 22pF
2.Rise Time=10ns max. source impedance= 50 ohms

FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

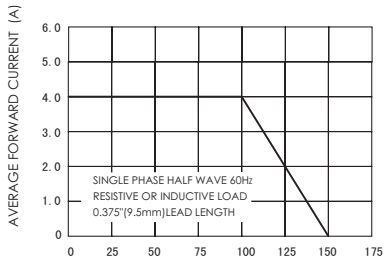


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

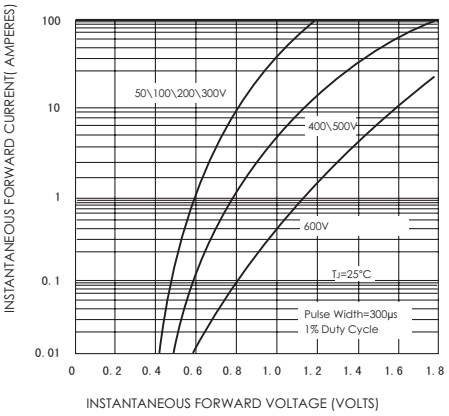


FIG.4-TYPICAL REVERSE CHARACTERISTICS

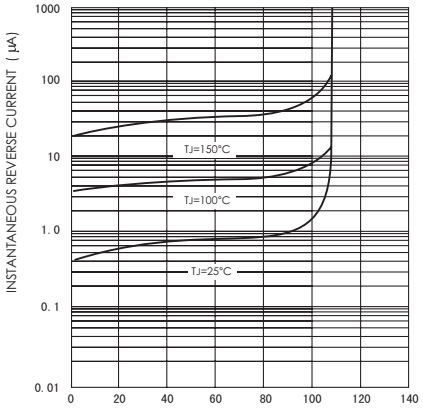


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

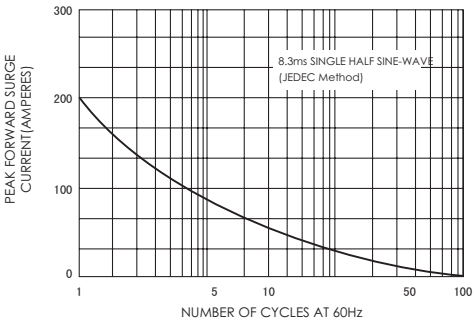


FIG.6-TYPICAL JUNCTION CAPACITANCE

