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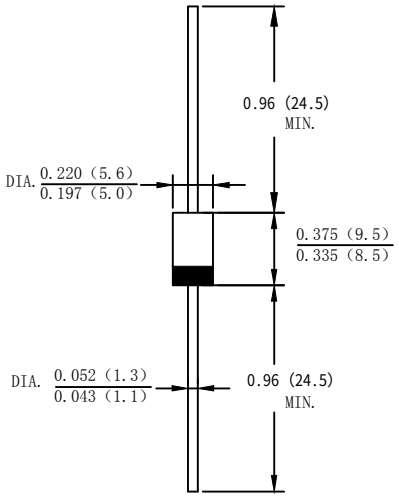
# MUR505 THRU MUR560

**5.0 AMP. High Efficient Rectifiers**

## Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

DO-201AD




Dimensions in inches and (millimeters)

## Mechanical Data

- Case: Molded plastic DO-201AD
- Terminals: Plated leads solderable per MIL-STD-202,Method 208 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For RoHS/Lead Free Version

## Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified

Single phase,half wave,60Hz,resistive or inductive load

For capacitive load derate current by 20%

| Type Number | SYMBOL | MUR 505 | MUR 510 | MUR 515 | MUR 520 | MUR 540 | MUR 560 | Unit |
|---|---|---|---|---|---|---|---|---|
| Maximum Recurrent Peak Reverse Voltage | $V_{RRM}$ | 50 | 100 | 150 | 200 | 400 | 600 | V |
| Maximum RMS Voltage | $V_{RMS}$ | 35 | 70 | 104 | 140 | 280 | 420 | V |
| Maximum DC Blocking Voltage | $V_{DC}$ | 50 | 100 | 150 | 200 | 400 | 600 | V |
| Maximum Average Forward Rectified Current.375"(9.5mm) lead length@$T_A$=55℃ | $I_O$ | 5.0 | | | | | | A |
| Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$ | 150 | | | | | | A |
| Forward Voltage @IF=5.0A | $V_{FM}$ | 1.0 | | | 1.4 | | | V |
| Peak Reverse Current @$T_A$=25℃ | $I_R$ | 10.0 | | | | | | uA |
| At Rated DC Blocking Voltage @$T_A$=100℃ | | 200 | | | | | | |
| Typical Junction Capacitance (Note 1) | $C_J$ | 75 | | | | | | pF |
| Maximum Reverse Recovery Time(Note 2) | Trr | 40 | | | 60 | | | ns |
| Operating Temperature Range | $T_J$ | -55 to +125 | | | | | | ℃ |
| Storage Temperature Range | $T_{STG}$ | -55 to +125 | | | | | | ℃ |

Note:1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

2.Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A

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# MUR505 THRU MUR560

FIG. 1 – FORWARD CURRENT DERATING CURVE

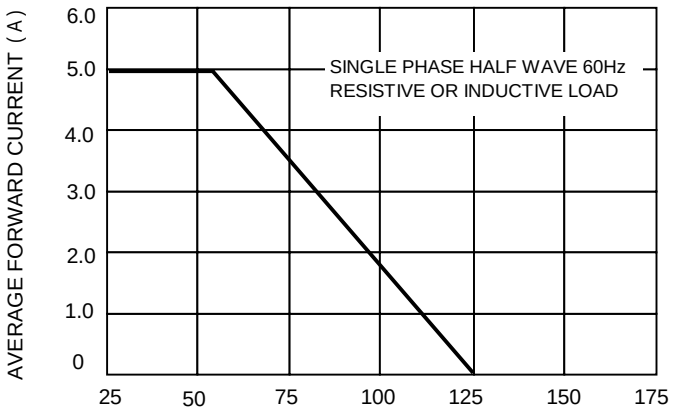



FIG.2-TYPICAL FORWARD CHARACTERISTICS

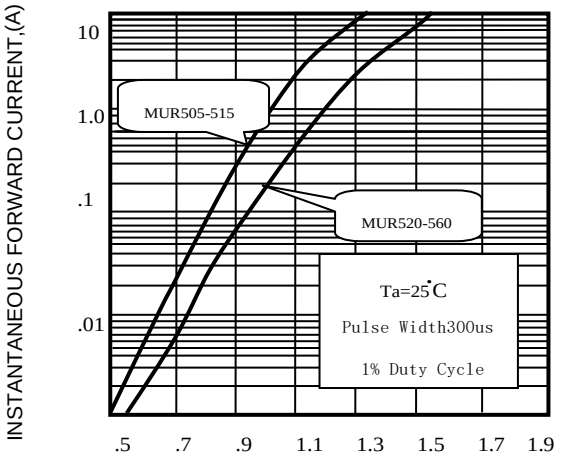



FIG. 3 – MAXIMUM NON-REPETITIVE SURGE CURRENT

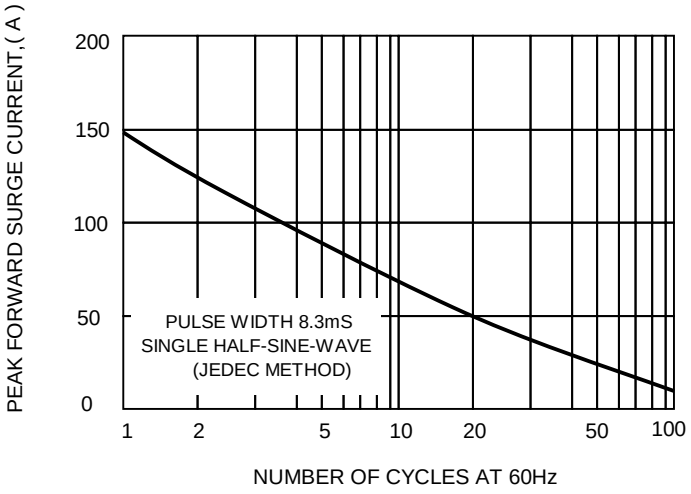



FIG.4 – TYPICAL JUNCTION CAPACITANCE

