

# VTR-H Diode M1 thru M7

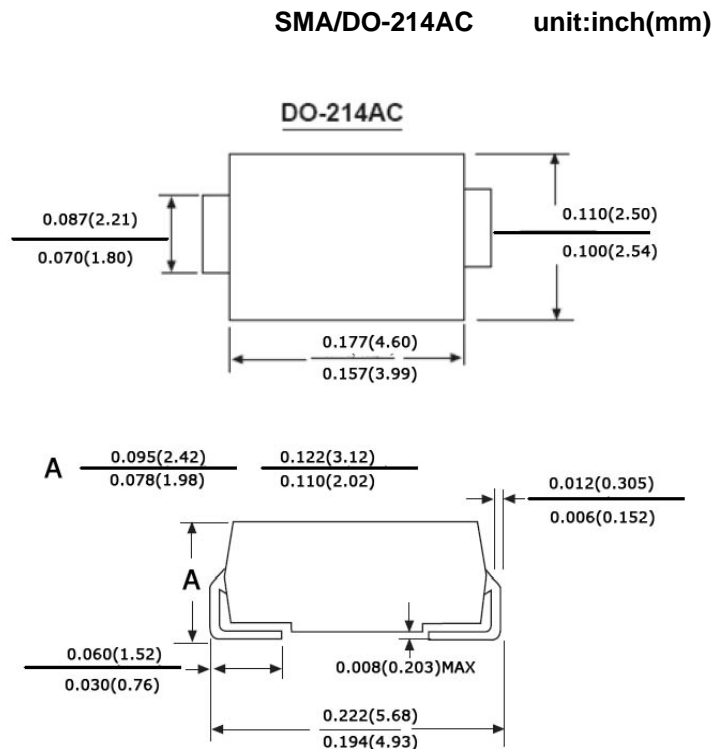
Surface Mount General Rectifier \* Plastic Passivation Junction  
 Reverse Voltage -50 to 1000 Volts \* Forward Current -1.0 Ampere

### Features:

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed
- 250°C/10 seconds at terminals

### Mechanical Data:

- Case : JEDEC DO-214AC molded plastic body
- Terminals : Solder plated solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight : 0.003 ounce 0.093 grams



### Maximum Rating and Electrical Characteristics

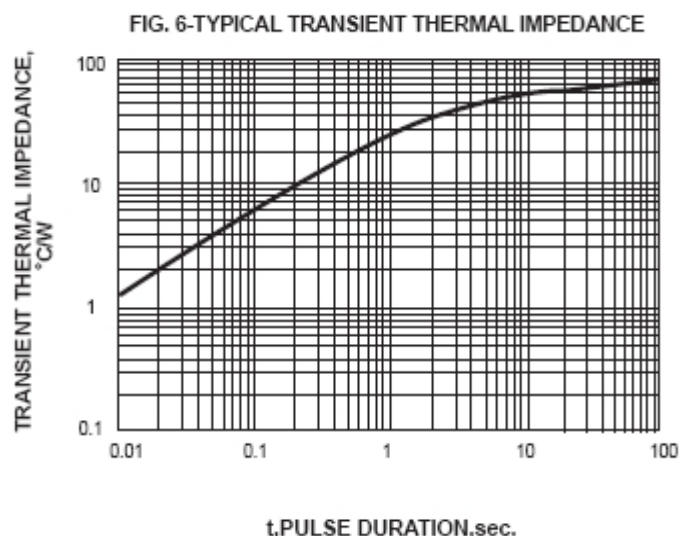
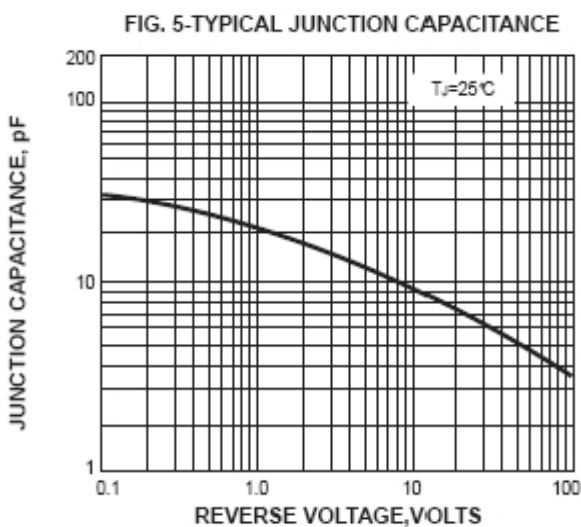
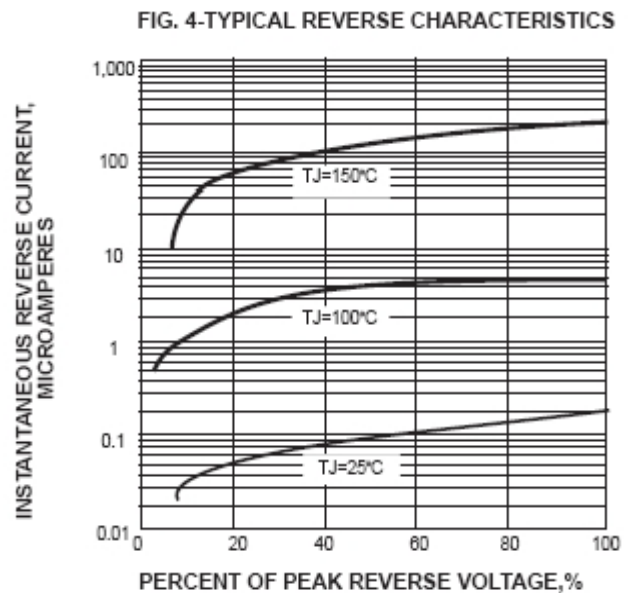
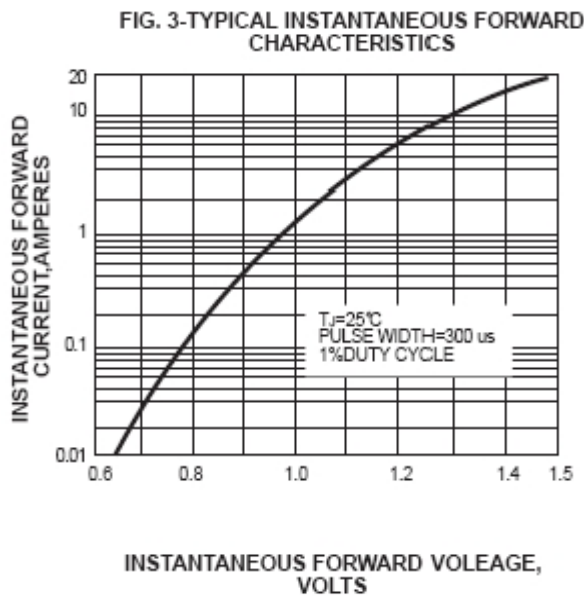
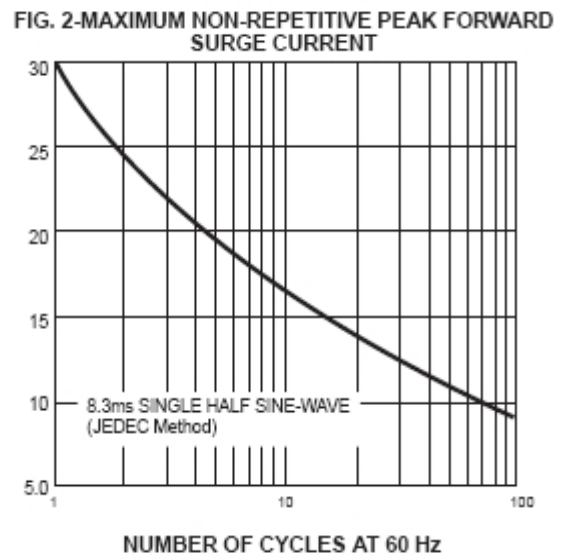
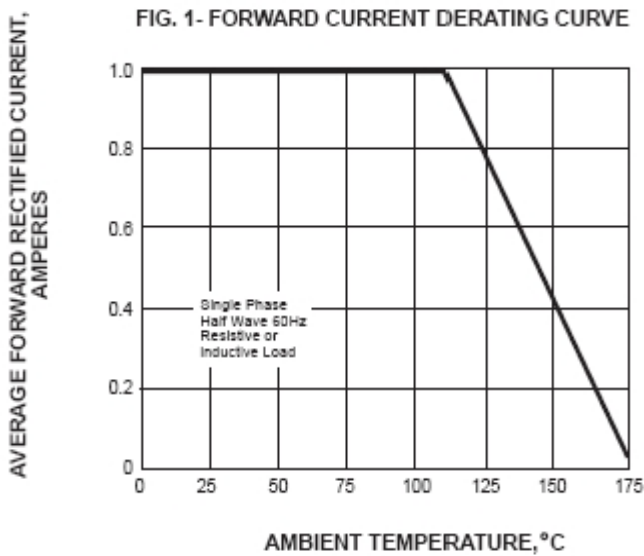
Ratings at 25°C ambient temperature unless otherwise specified

Single phase half-wave 60HZ resistive or inductive load ,for capacitive load current derate by 20%

| Items  | Symbols  | M1          | M2  | M3  | M4  | M5  | M6  | M7   | UNITS |    |
|--|----------|-------------|-----|-----|-----|-----|-----|------|-------|----|
| Maximum Repetitive Peak Reverse Voltage  | VRRM     | 50          | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |    |
| Maximum RMS Voltage  | VRMS     | 35          | 70  | 140 | 280 | 420 | 560 | 700  | VOLTS |    |
| Maximum DC Blocking Voltage  | VDC      | 50          | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |    |
| Maximum Average Forward Rectified Current at TL=110  | I (AV)   | 1.0         |     |     |     |     |     |      | AMP   |    |
| Peak forward surge current 8.3ms single * Half sine-wave superimposed on rated toad (JEDEC Method) | IFSM     | 30.0        |     |     |     |     |     |      | AMPS  |    |
| Maximum Instantaneous Forward Voltage at 1.0A  | VF       | 1.1         |     |     |     |     |     |      | VOLTS |    |
| Maximum DC Reverse Current TA=25°C at rated DC Blocking Voltage TA=100°C                           | IR       | 5.0         |     |     |     |     |     |      | 50.0  | μA |
| Typical Junction Capacitance (Measured at 1 MHZ and applied reverse voltage of 4.0V D.C)           | CJ       | 15.0        |     |     |     |     |     |      | pF    |    |
| Typical Thermal Resistance (P.C.B mounted with 0.2x0.2 " (5.0x5.0mm) copper pad areas)             | RqJA     | 75.0        |     |     |     |     |     |      | °C/W  |    |
| Operating Junction and Storage Temperature Range   | TJ, TSTG | -65 to +175 |     |     |     |     |     |      | °C    |    |

# VTR-H Diode M1 thru M7

## Rating and Characteristic Curves M1 thru M7



Note: Specification are subjected to change without notice. You could please visit our website, for more details.