FM145L-W-S-R01

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 45 Volts CURRENT 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Low forward voltage drop

MECHANICAL:

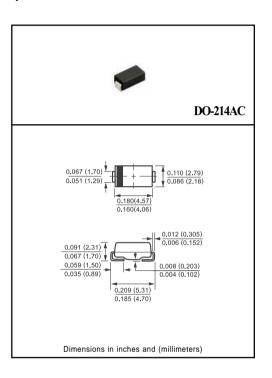
*Epoxy: Device has ULflammability classification94V-0

* Metallurgically bonded construction

* Mounting position: Any * Weight: 0.057 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

| RATINGS | SYMBOL | FM145L-W-S-R01 | UNITS |
|---|--------|----------------|------------------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 45 | Volts |
| Maximum RMS Voltage | VRMS | 31.5 | Volts Volts Amps |
| Maximum DC Blocking Voltage | VDC | 45 | |
| Maximum Average Forward Rectified Current at Derating Lead Temperature | Io | 1.0 | |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 40 | Amps |
| Typical Thermal Resistance (Note 1) | RθJA | 50 | °C/W |
| Typical Junction Capacitance (Note 2) | CJ | 110 | pF |
| Operating Temperature Range | TJ | -65 to + 125 | ۰c |
| Storage Temperature Range | Тѕтс | -65 to + 150 | ٥C |

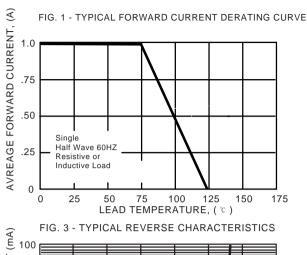
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

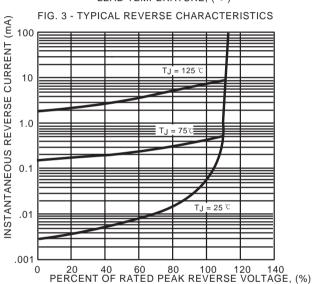
| CHARACTERISTIC | S | SYMBOL | FM145L-W-S-R01 | UNITS |
|--|-------------|--------|----------------|-------|
| Maximum Instantaneous Forward Voltage at 1.0A DC | | VF | .50 | Volts |
| Maximum Average Reverse Current | @Ta = 25°C | - IR | 1.0 | mAmps |
| at Rated DC Blocking Voltage | @TA = 100°C | IK. | 10 | mAmps |

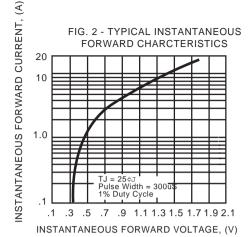
NOTES: 1. Thermal Resistance (Junction to Ambient).

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. P.C.B Monuted with 0.2X0.2" (5.0X5.0mm2) copper pad area.

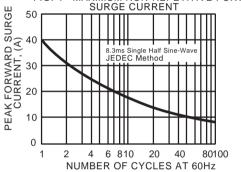
RATING AND CHARACTERISTIC CURVES (FM145L-W-S-R01)

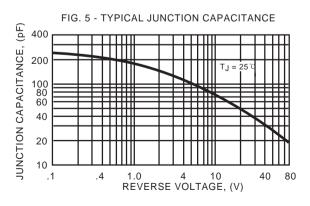




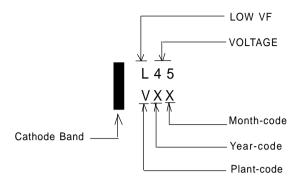








1. Marking on the body



2. Packing Methode

| PACKAGE | EA PER REEL | COMPONENT SPACE(m/m) | TAPE SPACE (m/m) | REEL DIA (m/m) | CARTON SIZE (m/m) | EA PER CARTON | GROSS WEIGHT(Kg) |
|---------|----------------|-------------------------|---------------------|-------------------|----------------------|------------------|---------------------|
| SMA-W | 5,000 | | | 330 | 355*360*215 | 50,000 | 8.86 |

