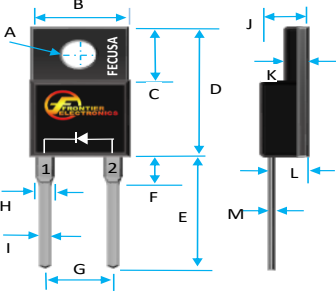


## 5A SCHOTTKY BARRIER RECTIFIERS



| Dim. | Value in [mm] |              |
|------|---------------|--------------|
|      | Min.          | Max.         |
| A    | ---           | 0.134[3.40]  |
| B    | 0.382[9.70]   | 0.404[10.26] |
| C    | 0.248[6.30]   | 0.272[6.91]  |
| D    | 0.570[14.48]  | 0.610[15.49] |
| E    | 0.511[12.98]  | 0.543[13.79] |
| F    | ---           | 0.163[4.09]  |
| G    | 0.095[2.41]   | 0.105[2.67]  |
| H    | 0.195[4.95]   | 0.204[5.18]  |
| I    | ---           | 0.035[0.89]  |
| J    | ---           | 0.189[4.80]  |
| K    | ---           | 0.122[3.10]  |
| L    | 0.098[2.49]   | 0.114[2.90]  |
| M    | ---           | 0.031[0.79]  |

### PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. EXTREMELY LOW VF
3. LOW POWER LOSS/HIGH EFFICIENCY
4. LOW STORED CHARGE
5. MAJORITY CARRIER CONDUCTION
6. CASE: ITO-220AC, FULLY INSULATED PACKAGE
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. POLARITY: AS MARKED
9. WEIGHT 1.81 GRAMS
10. MIL-STD-202, METHOD 208
11. ROHS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO + 150°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

| RATINGS  | SYMBOL | VALUE | UNITS |
|--|--------|-------|-------|
| MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT  | IO     | 5     | A     |
| PK FWD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD PER LEG | IFSM   | 150   | A     |
| TYPICAL THERMAL RESISTANCE JUNCTION TO CASE PER LEG                                  | Rqjc   | 6     | °C/W  |
| MAXIMUM REVERSE CURRENT AT 25 °C (NOTE 1) PER LEG                                    | IR     | 5000  | uA    |
| MAXIMUM REVERSE CURRENT AT 100 °C (NOTE 1) PER LEG                                   | IR     | 50000 | uA    |

1. PULSE TEST: 300µS PULSE WIDTH, 1% DUTY CYCLE
2. MAXIMUM FORWARD VOLTAGE AT IO DC

| PART NUMBER | MAXIMUM RECURRENT PEAK REVERSE VOLTAGE VRRM (V) | MAXIMUM RMS VOLTAGE VRMS (V) | MAXIMUM DC BLOCKING VOLTAGE VDC (V) | MAXIMUM FORWARD VOLTAGE VF (V) |
|-------------|---|------------------------------|-------------------------------------|--------------------------------|
| SRF5-02     | 20  | 14                           | 20                                  | 0.55                           |
| SRF5-03     | 30  | 21                           | 30                                  | 0.55                           |
| SRF5-04     | 40  | 28                           | 40                                  | 0.55                           |
| SRF5-045    | 45  | 31                           | 45                                  | 0.55                           |
| SRF5-05     | 50  | 35                           | 50                                  | 0.7                            |
| SRF5-06     | 60  | 42                           | 60                                  | 0.7                            |
| SRF5-07     | 70  | 49                           | 70                                  | 0.8                            |
| SRF5-08     | 80  | 56                           | 80                                  | 0.8                            |
| SRF5-09     | 90  | 63                           | 90                                  | 0.8                            |
| SRF5-10     | 100   | 70                           | 100                                 | 0.8                            |



# SRF5-02 THRU SRF5-10 SPECIFICATIONS

Rev. A

## RATING AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

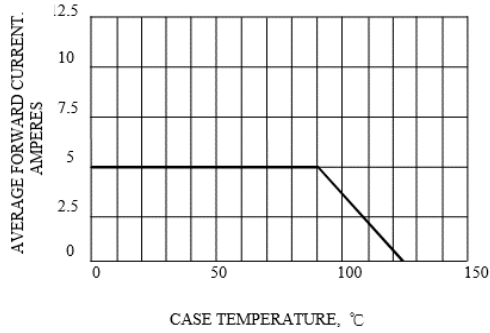


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

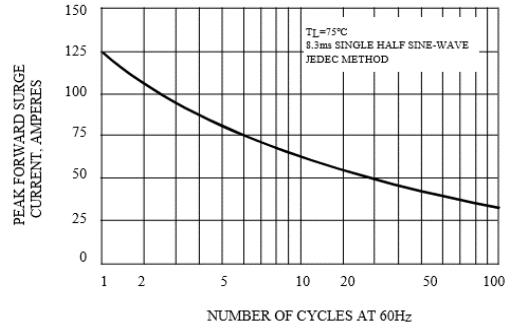


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

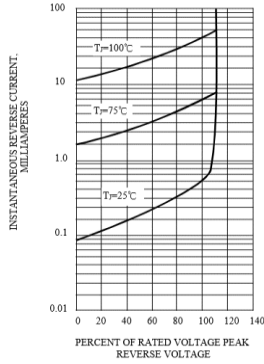


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

