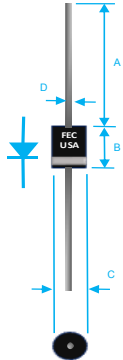


15A LOW VF TRENCH MOS SCHOTTKY RECTIFIERS



| Dim. | Value In[mm] | |
|------|--------------|-------------|
| | Min. | Max. |
| A | 1.000[25.40] | --- |
| B | 0.335[8.51] | 0.375[9.52] |
| C | 0.197[5.00] | 0.220[5.59] |
| D | 0.048[1.22] | 0.052[1.32] |

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. EXTREMELY LOW VF
3. LOW POWER LOSS/HIGH EFFICIENCY
4. HIGH SURGE CAPABILITY
5. CASE: MOLDED PLASTIC, DO201AD
6. DIMENSIONS IN INCHES AND (MILLIMETERS)
7. POLARITY: INDICATED BY CATHODE BAND
8. WEIGHT: 1.2 GRAMS
9. MIL-STD-202, METHOD 208
10. ROHS & HALOGEN FREE

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 (SEE FIG.1) | IO | 15 | 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 (NOTE 2) | Rqjc | 25 | °C/W |
| MAXIMUM FORWARD VOLTAGE | VF | 0.78/0.72 | V |
| REVERSE CURRENT AT AT Tj =25°C (NOTE 1) | IR | 10 | uA |
| REVERSE CURRENT AT Tj =125°C (NOTE 1) | IR | 10000 | uA |

1. PULSE TEST : 300µS PULSE WIDTH , 1% DUTY CYCLE
2. BOTH LEADS ATTACHED TO HEATSINK AT LEAD LENGTH 5mm
3. MAXIMUM FORWARD VOLTAGE AT 15A, 25°C / 15A , 125°C

| PART NUMBER | MAXIMUM RECURRENT PEAK REVERSE VOLTAGE VRRM (V) | MAXIMUM RMS VOLTAGE VRMS (V) | MAXIMUM DC BLOCKING VOLTAGE VDC (V) |
|-------------|---|------------------------------|-------------------------------------|
| SR15L10 | 100 | 70 | 100 |



SR15L10 SPECIFICATIONS

Rev. A

RATING AND CHARACTERISTIC CURVES

FIG. 1-FORWARD CURRENT DERATING CURVE

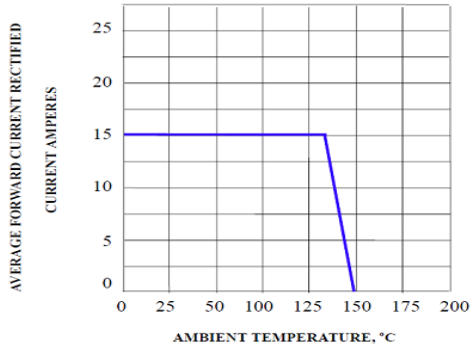


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE RATING

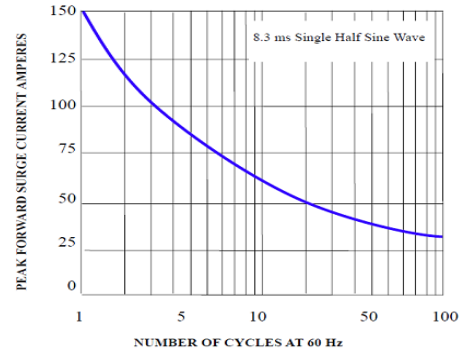


FIG. 3- TYPICAL REVERSE CHARACTERISTICS

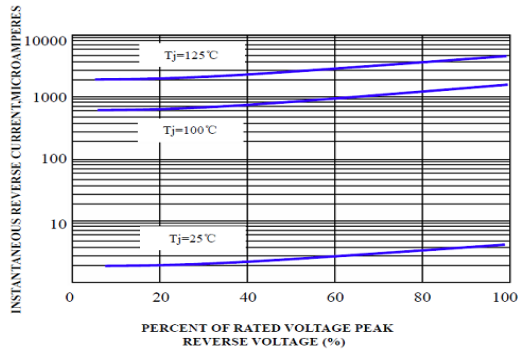


FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

