

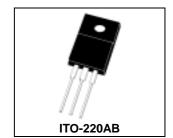
Switchmode Full Plastic Dual Schottky Barrier Power Rectifiers

Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

- * Low Forward Voltage.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- * 150 Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory

SCHOTTKY BARRIER RECTIFIERS

20 AMPERES 150 VOLTS

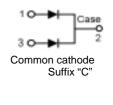


MAXIMUM RATINGS

| Characteristic | Symbol | SRF20150C | Unit |
|--|--|-------------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V _{RRM} V _{RWM} V _R | 150 | V |
| RMS Reverse Voltage | V _{R(RMS)} | 105 | ٧ |
| Average Rectifier Forward Current Total Device (Rated V _R),T _C =100 | I _{F(AV)} | 10 20 | Α |
| Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz) | I _{FM} | 20 | Α |
| Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz) | I _{FSM} | 150 | Α |
| Operating and Storage Junction Temperature Range | T_J , T_{STG} | -65 to +150 | |

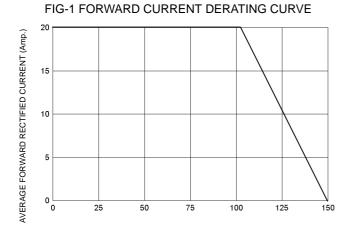
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| DIM | MILLIMETERS | | |
|-----|-------------|-------|--|
| | MIN | MAX | |
| Α | 15.05 | 15.15 | |
| В | 13.35 | 13.45 | |
| С | 10.00 | 10.10 | |
| D | 6.55 | 6.65 | |
| E | 2.65 | 2.75 | |
| F | 1.55 | 1.65 | |
| G | 1.15 | 1.25 | |
| Н | 0.55 | 0.65 | |
| ı | 2.50 | 2.60 | |
| J | 3.00 | 3.20 | |
| K | 1.10 | 1.20 | |
| L | 0.55 | 0.65 | |
| M | 4.40 | 4.60 | |
| N | 1.15 | 1.25 | |
| Р | 2.65 | 2.75 | |
| 0 | 3.35 | 3.45 | |
| Q | 3.15 | 3.25 | |

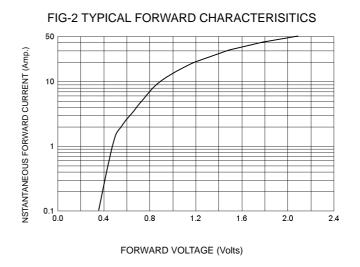


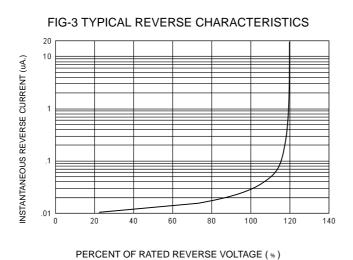
ELECTRIAL CHARACTERISTICS

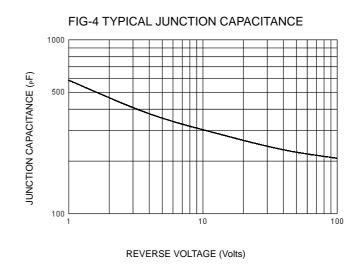
| Characteristic | Symbol | SRF20150C | Unit |
|--|----------------|--------------|------|
| Maximum Instantaneous Forward Voltage ($I_F = 10 \text{ Amp T}_C = 25$) ($I_F = 10 \text{ Amp T}_C = 125$) | V _F | 0.95 0.85 | V |
| Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$) | I _R | 0.5 20 | mA |

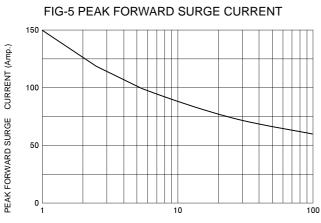


CASE TEMPERATURE ()









NUMBER OF CYCLES AT 60 Hz



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