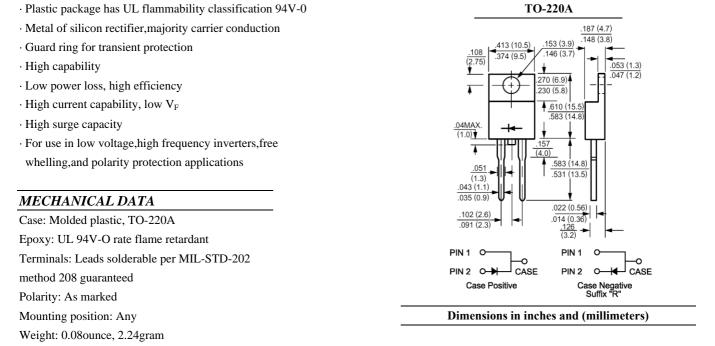
SR820 THRU SR860

SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

20 to 60 VOLTS 8.0 AMPERE

FEATURES



Maximum Ratings and Electrical Characteristics

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

| | Symbols | SR820 | SR830 | SR840 | SR850 | SR860 | Units |
|--|-----------------------|-------------|-------------|-------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 20 | 30 | 40 | 50 | 60 | Volts |
| Maximum RMS Voltage | V _{RMS} | 14 | 21 | 28 | 35 | 42 | Volts |
| Maximum DC Blocking Voltage | V _{DC} | 20 | 30 | 40 | 50 | 60 | Volts |
| Maximum Average Forward Rectified Current | I _(AV) 8.0 | | | | | | |
| See Fig. 1 | I _(AV) | | 0.0 | | | | Amp |
| Peak Forward Surge Current, | | | | | | | |
| 8.3ms single half-sine-wave | I _{FSM} 150 | | | | | Amp | |
| superimposed on rated load (JEDEC method) | | | | | | | |
| Maximum Forward Voltage | V | 0.55 | | | 0.7 | | Volts |
| at 8.0A DC and 25 | $V_{\rm F}$ | | | | | | |
| Maximum Reverse Current at T _C =25 | т | 0.5 | | | | | mAmp |
| at Rated DC Blocking Voltage T _C =125 | I _R | 50 | | | | | |
| Typical Junction Capacitance (Note 1) | CJ | | 700 | | 4 | 60 | pF |
| Typical Thermal Resistance (Note 2) | R _{0JC} | 3 | | | | | /W |
| Operating Temperature Range | T _J | | -55 to +125 | | -55 te | o +150 | |
| Storage Temperature Range | Tstg | -55 to +150 | | | | | |

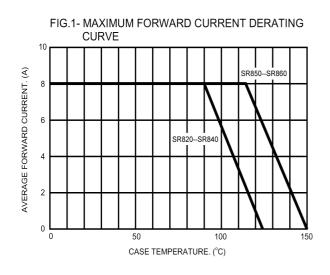
NOTES:

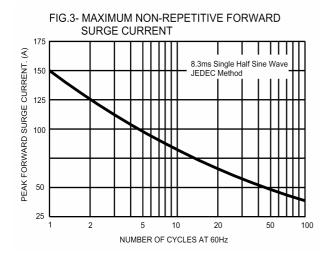
1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance from Junction to Case Per Leg

SR820 THRU SR860 SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES







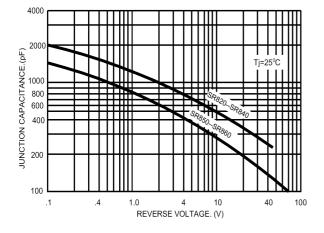


FIG.2- TYPICAL REVERSE CHARACTERISTICS

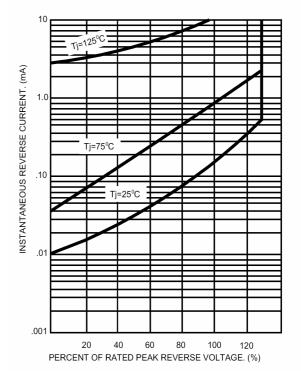


FIG.5- TYPICAL FORWARD CHARACTERISTICS

