

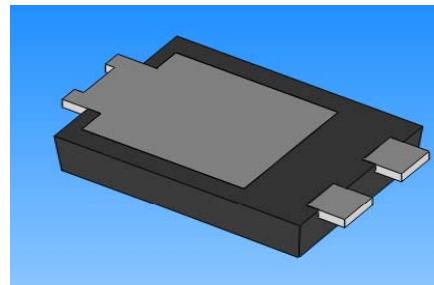


SCHOTTKY BARRIER RECTIFIER
VOLTAGE RANGE 45Volts CURRENT 10.0 Ampere

FEATURES

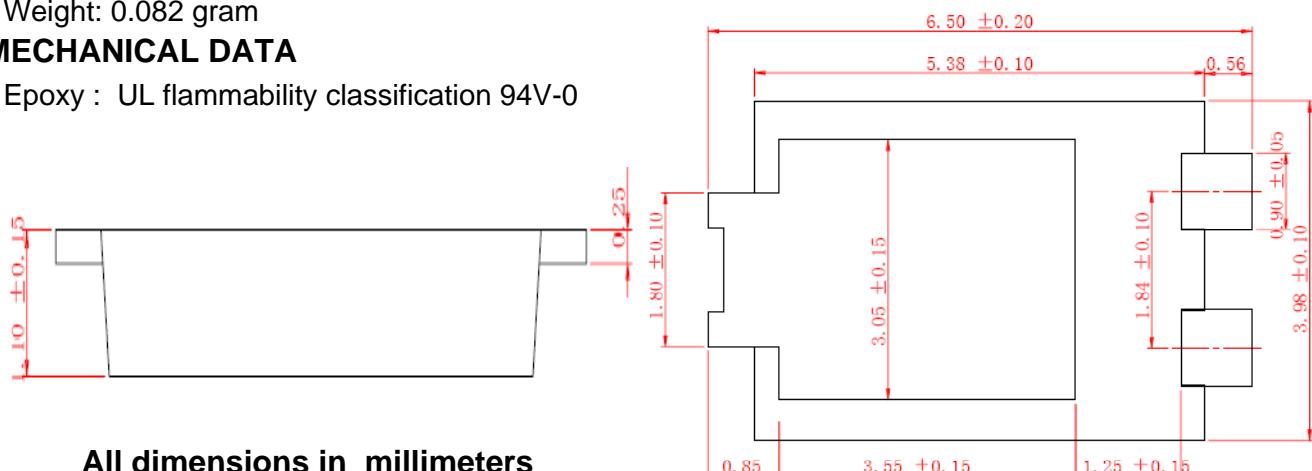
- * Low switching noise
- * Low forward voltage drop
- * High surge capability
- * High current capability
- * Mounting position: Any
- * Weight: 0.082 gram

TO-277



MECHANICAL DATA

- * Epoxy : UL flammability classification 94V-0



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

| RATINGS | SYMBOL | 10S45P | UNITS |
|---|-----------|---------------------|-------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 45 | Volts |
| Maximum RMS Voltage | V_{RMS} | 31.5 | Volts |
| Maximum DC Blocking Voltage | V_{DC} | 45 | Volts |
| Maximum Average Forward Rectified Current at Ambient Temperature | I_o | 10 | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 180 | Amps |
| Operating Temperature Range | T_J | 150 | °C |
| Storage Temperature Range | T_{STG} | -55 to + 150 | °C |

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

| Forward Voltage Drop (note1) | | VF | TYP. | MAX. | Volts |
|--|--|----|------------|------|-------|
| | | | 0.47 | 0.5 | |
| | | | 0.45 | - | |
| Maximum Reverse Current @ $T_A = 25^\circ C$ | | IR | 300 | | uA |
| | | | 100 | | |

Notes:(1) Pulse test :300 us pulse width,1% duty cycle

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

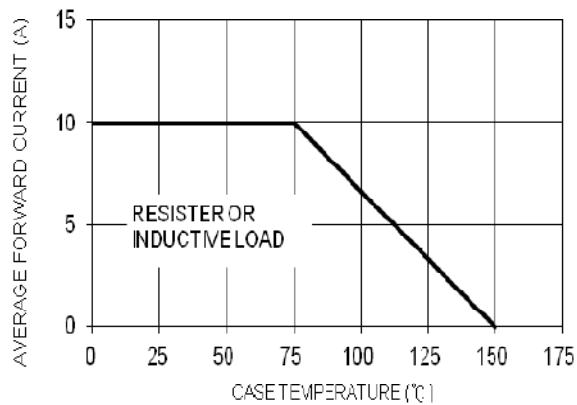


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

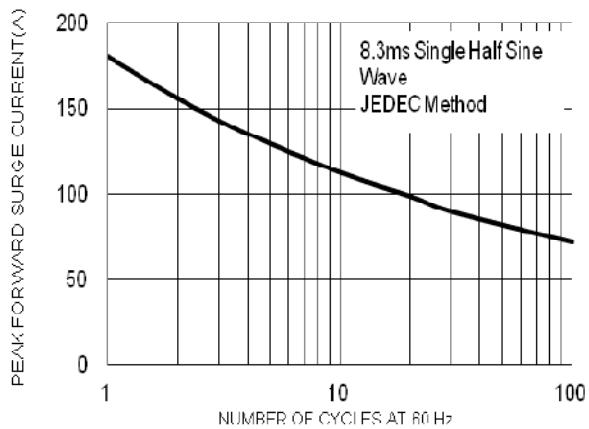


FIG.3 TYPICAL FORWARD CHARACTERISTICS PER LEG

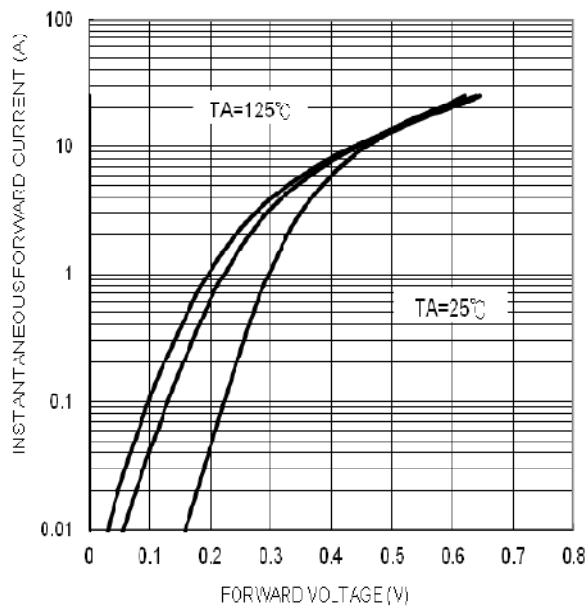


FIG.4 TYPICAL REVERSE CHARACTERISTICS PER LEG

