

PSA2060LT

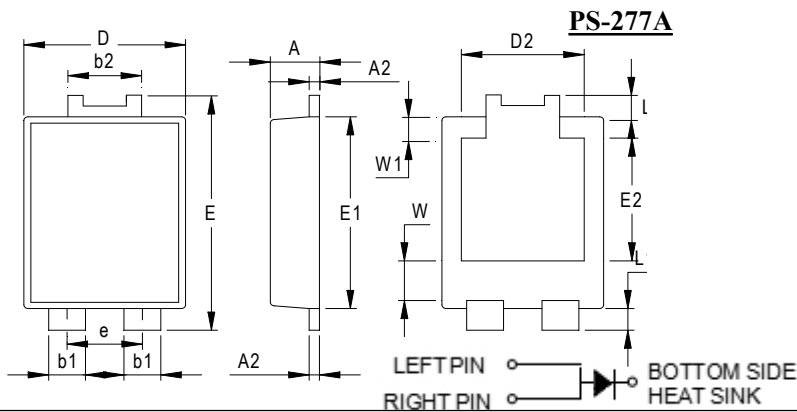
20.0AMPS. LOW VF MOS SCHOTTKY BARRIER RECTIFIERS

FEATURE

- . For surface mounted application
- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge current capability
- . High temperature soldering guaranteed:
260°C/10 seconds at terminals.

MECHANICAL DATA

- . Terminal: Solder plated
- . Case: Molded with UL-94 Class V-0 recognized
Flame Retardant Epoxy



| NO | Dimensions | NO | Dimensions |
|----|------------|----|------------|
| A | 1.25±0.1 | e | 1.84Typ |
| A2 | 0.30±0.05 | E1 | 6.25±0.1 |
| b1 | 0.9±0.1 | E2 | 3.6±0.2 |
| b2 | 2.1±0.1 | L | 0.4±0.1 |
| D | 4.65±0.1 | L1 | 0.4±0.1 |
| D2 | 3.4Typ | W | 1.2±0.2 |
| E | 7.05±0.1 | W1 | 0.55±0.1 |

All Dimensions in mm

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

| Type Number | SYMBOL | PSA2060LT | units |
|--|-------------|------------------------|-------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 60 | V |
| Maximum RMS Voltage | V_{RMS} | 42 | V |
| Maximum DC blocking Voltage | V_{DC} | 60 | V |
| Average Forward Rectified Output Current | $I_{F(AV)}$ | 20.0 | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 250.0 | A |
| Maximum Instantaneous Forward Voltage at 2.0A DC | V_F | @T _A =25°C | V |
| | | @T _A =100°C | |
| | | @T _A =25°C | |
| | | @T _A =100°C | |
| Maximum Instantaneous Forward Voltage at 10.0A DC | V_F | @T _A =25°C | V |
| | | @T _A =100°C | |
| | | @T _A =25°C | |
| | | @T _A =100°C | |
| Maximum Instantaneous Forward Voltage at 20.0A DC | V_F | @T _A =25°C | V |
| | | @T _A =100°C | |
| | | @T _A =25°C | |
| | | @T _A =100°C | |
| Maximum DC Reverse Current at rated DC blocking voltage | I_R | @T _A =25°C | mA |
| | | @T _A =85°C | |
| | | @T _A =100°C | |
| | | @T _A =125°C | |
| Typical Junction Capacitance (Note1) | C_J | 1200 | pF |
| Typical Thermal Resistance (Note2) | $R_{(JA)}$ | 75 | °C/W |
| | $R_{(JC)}$ | 12 | |
| Storage Temperature | T_{STG} | -55 to +150 | °C |
| Operating Junction Temperature | T_J | -55 to +150 | °C |

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Polyimide PCB, 2oz. Copper. Cathode pad dimensions 18.8mm x 14.4mm. Anode pad dimensions 5.6mm x 14.4mm.

RATING AND CHARACTERISTIC CURVES (PSA2060LT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

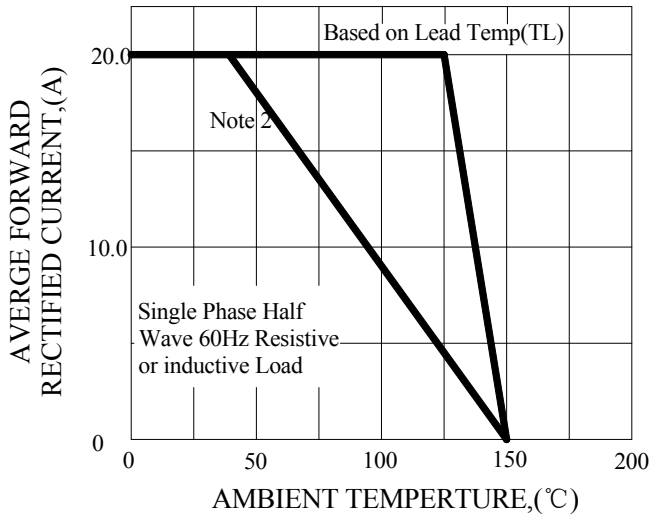


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

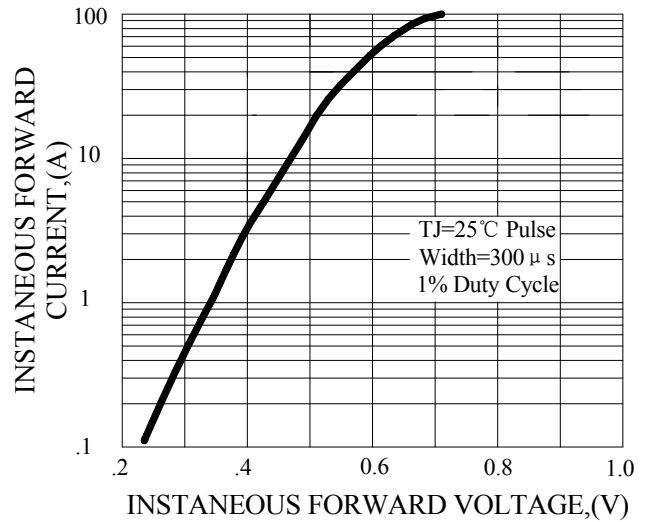


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

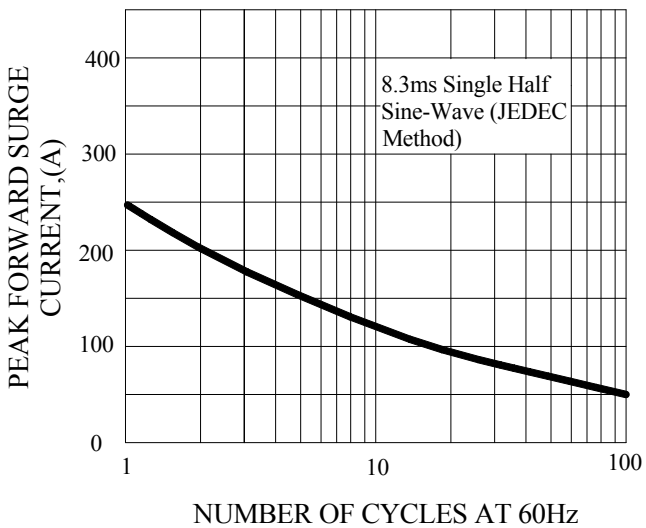
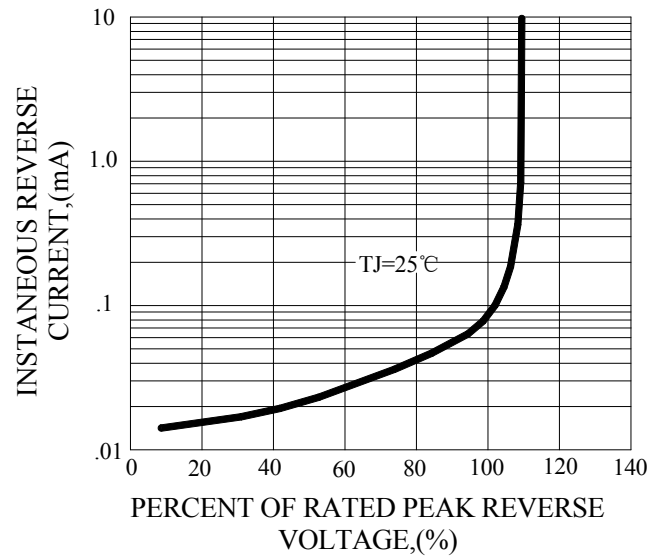


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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