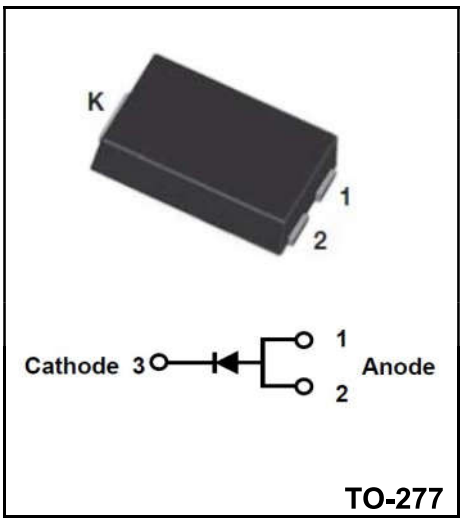
# SS1040SP THRU SS10200SP TO-277

**Surface Mount Schottky Barrier Rectifier**

**Reverse Voltage - 40 to 200 V**

**Forward Current - 10 A**




## FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Built-in strain relief,ideal for automated placement
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250 C/10 seconds at terminals
- Lead free in comply with EU RoHS 2011/65/EU directives

## MECHANICAL DATA

- Case: TO-277
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.003g / 0.092oz

**Absolute Maximum Ratings and Electrical characteristics**
**Ratings at 25 ° ambient temperature unless otherwise specified.Single phase, half wave, 60Hz resistive or inductive load,for capacitive load, derate by 20 %**

| Parameter | Symbols | SS1040SP | SS1045SP | SS1060SP | SS1080SP | SS10100SP | SS10150SP | SS10200SP | Units |
|---|---|---|---|---|---|---|---|---|---|
| Maximum Repetitive Peak Reverse Voltage | $V_{RRM}$ | 40 | 45 | 60 | 80 | 100 | 150 | 200 | V |
| Maximum RMS voltage | $V_{RMS}$ | 28 | 31.5 | 42 | 56 | 70 | 105 | 140 | V |
| Maximum DC Blocking Voltage | $V_{DC}$ | 40 | 45 | 60 | 80 | 100 | 150 | 200 | V |
| Maximum Average Forward Rectified Current TL=100°C | $I_{F(AV)}$ | 10.0 | | | | | | | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method) | $I_{FSM}$ | 175.0 | | | | | | | A |
| Maximum Instantaneous Forward Voltage at 10 A | $V_F$ | 0.55 | | 0.70 | 0.85 | | 0.95 | | V |
| Maximum Instantaneous Reverse Current $T_A$ = 25°C<br>at Rated DC Reverse Voltage $T_A$ = 125°C | $I_R$ | 0.5<br>50 | | | 0.05<br>10 | | | | mA |
| Typical Thermal Resistance | $R_{\theta JA}$ | 60.0 | | | | | | | °C/W |
| Operating Junction Temperature Range | Tj | -55 ~ +150 | | | | | | | °C |
| Storage Temperature Range | $T_{stg}$ | -55 ~ +150 | | | | | | | °C |

## Ratings and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

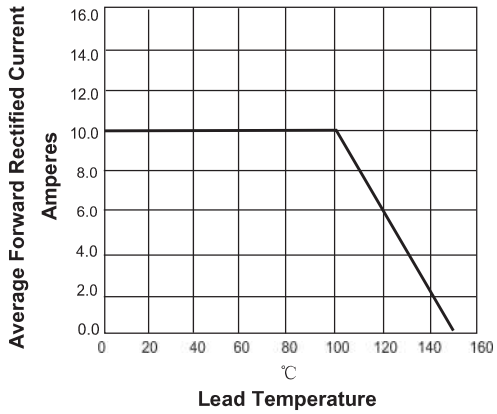



FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

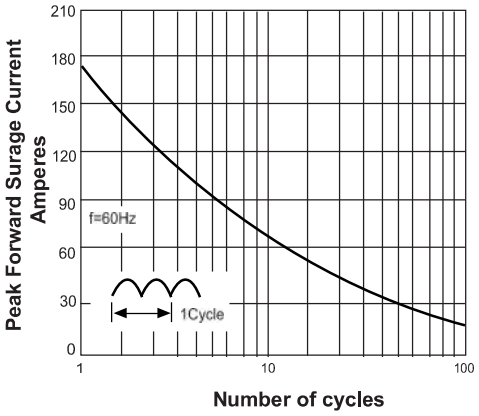



FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

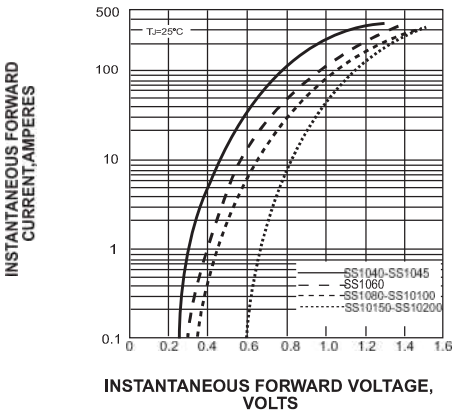
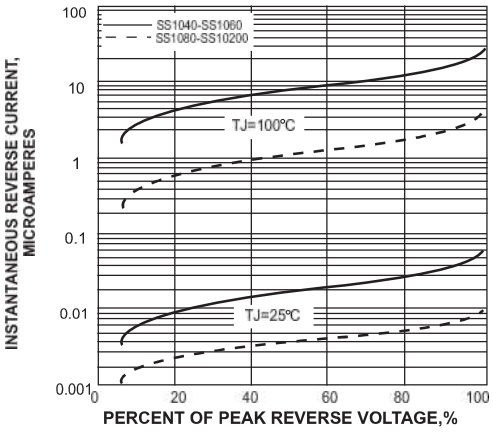
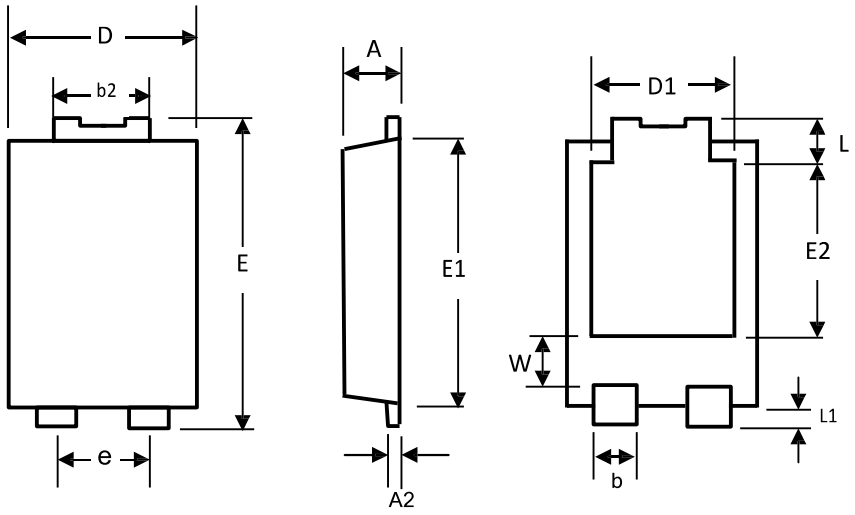



FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



## Package Outline TO-277

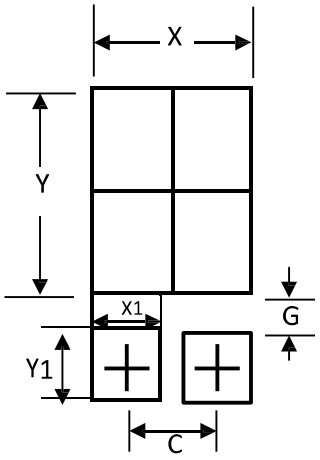
**Plastic surface mounted package; 3 leads**




| Dim | Min | Max |
|---|---|---|
| A | 1.1 | 1.2 |
| A2 | 0.3 | 0.4 |
| b1 | 0.8 | 1 |
| b2 | 1.7 | 1.9 |
| D | 3.9 | 4.1 |
| D1 | 3.054 | |
| E | 6.4 | 6.6 |
| e | 1.84 | |
| E1 | 5.3 | 5.5 |
| E2 | 3.549 | |
| L | 0.8 | 1 |
| L1 | 0.5 | 0.7 |
| W | 1.1 | 1.4 |

unit:mm

### Mounting Pad Layout




| Dim | Min |
|---|---|
| C | 1.8 |
| G | 0.9 |
| X | 3.4 |
| X1 | 1.4 |
| Y | 4.9 |
| Y1 | 1.4 |

unit:mm

## Summary of Packing Options

| Package | Packing Description | Packing Quantity | Industry Standard |
|---|---|---|---|
| TO-277 | Tape/Reel,13”reel | 5000 | EIA-481-1 |

# X-ON Electronics

Largest Supplier of Electrical and Electronic Components

***Click to view similar products for*** MOSFET ***category:***

***Click to view products by*** YFW Electronics ***manufacturer:***

Other Similar products are found below :

IRFD120 JANTX2N5237 BUK455-60A/B MIC4420CM-TR VN1206L NDP4060 SI4482DY IPS70R2K0CEAKMA1 SQD23N06-31L-GE3 TK16J60W,S1VQ(O 2SK2614(TE16L1,Q) DMN1017UCP3-7 DMN1053UCP4-7 SQJ469EP-T1-GE3 NTE2384 DMC2700UDMQ-7 DMN2080UCB4-7 DMN61D9UWQ-13 US6M2GTR DMN31D5UDJ-7 DMP22D4UFO-7B DMN1006UCA6-7 DMN16M9UCA6-7 STF5N65M6 IRF40H233XTMA1 STU5N65M6 DMN6022SSD-13 DMN13M9UCA6-7 DMTH10H4M6SPS-13 DMN2990UFB-7B IPB80P04P405ATMA2 2N7002W-G MCAC30N06Y-TP MCQ7328-TP BXP7N65D BXP4N65F AOL1454G WMJ80N60C4 BXP2N20L BXP2N65D BXT1150N10J BXT1700P06M TSM60NB380CP ROG RQ7L055BGTCR DMNH15H110SK3-13 SLF10N65ABV2 BSO203SP BSO211P IPA60R230P6 IPA60R460CE