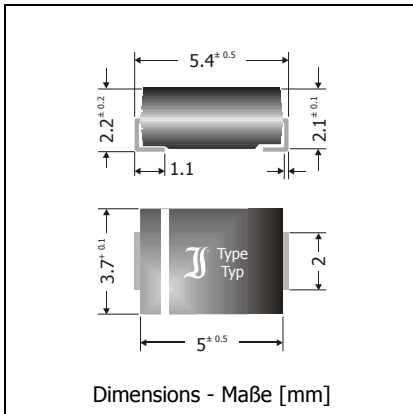


S2A ... S2Y

Surface Mount Si-Rectifiers Si-Gleichrichter für die Oberflächenmontage

Version 2005-07-04



| | |
|---|---------------------|
| Nominal Current – Nennstrom | 2 A |
| Repetitive peak reverse voltage Periodische Spitzensperrspannung | 50...2000 V |
| Plastic case Kunststoffgehäuse | ~ SMB ~ DO-214AA |
| Weight approx. – Gewicht ca. | 0.1 g |
| Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert | |
| Standard packaging taped and reeled Standard Lieferform gegurtet auf Rolle | |



Maximum ratings

Grenzwerte

| Type Typ | Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V] | Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V] |
|-------------|--|---|
| S2A | 50 | 50 |
| S2B | 100 | 100 |
| S2D | 200 | 200 |
| S2G | 400 | 400 |
| S2J | 600 | 600 |
| S2K | 800 | 800 |
| S2M | 1000 | 1000 |
| S2T | 1300 | 1300 |
| S2W | 1600 | 1600 |
| S2X | 1800 | 1800 |
| S2Y | 2000 | 2000 |

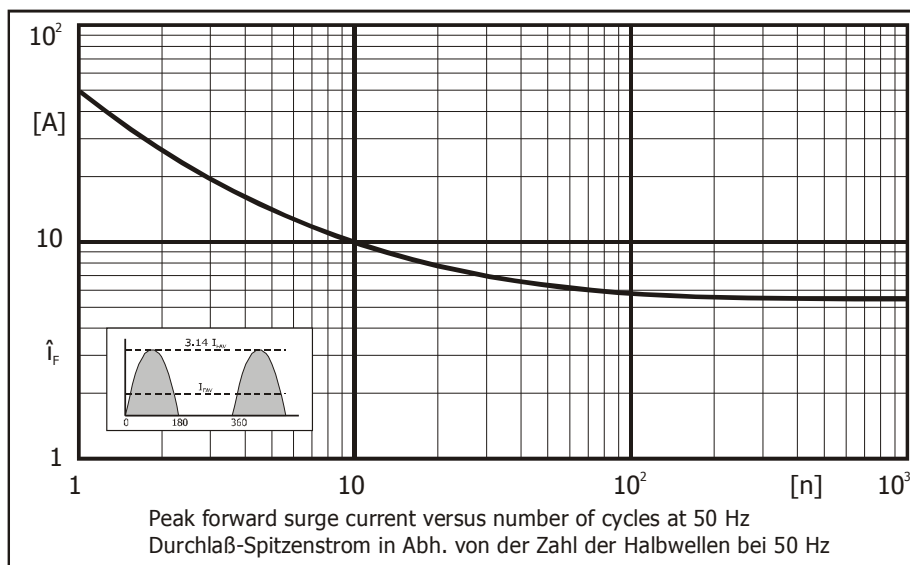
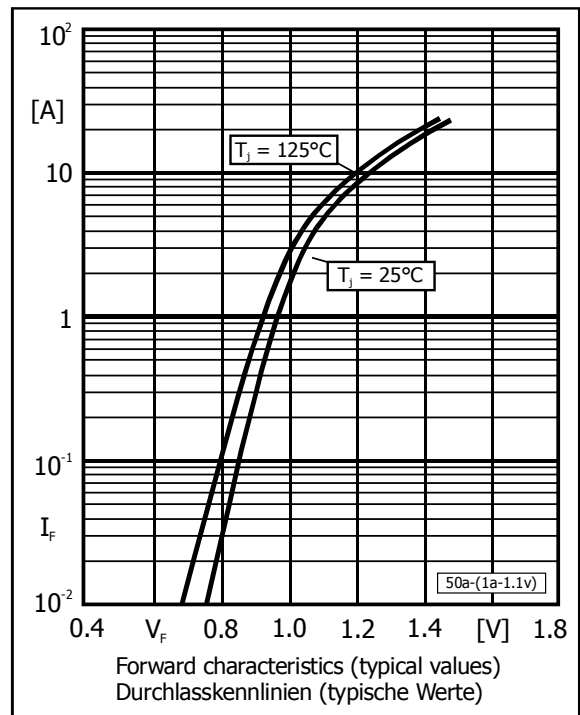
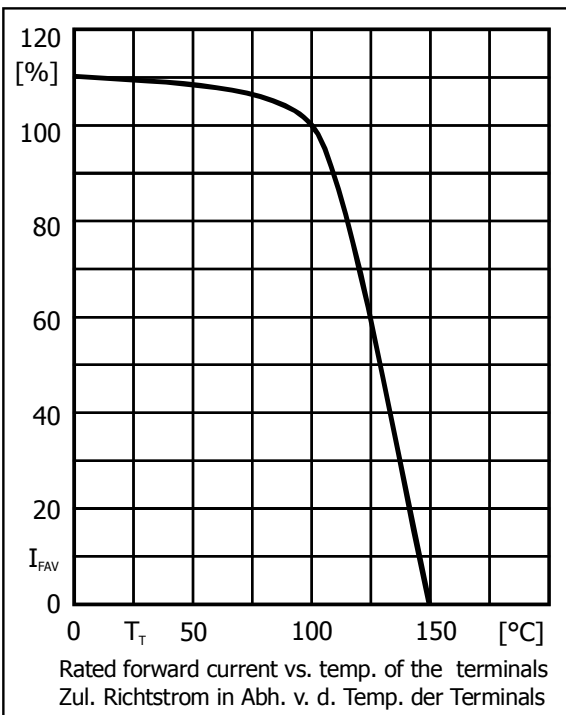
| | | | |
|--|---------------------------|-----------|---------------------|
| Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last | $T_T = 100^\circ\text{C}$ | I_{FAV} | 2 A |
| Repetitive peak forward current Periodischer Spitzenstrom | $f > 15 \text{ Hz}$ | I_{FRM} | 10 A ¹⁾ |
| Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwelle | $T_A = 25^\circ\text{C}$ | I_{FSM} | 50/55 A |
| Rating for fusing, $t < 10 \text{ ms}$ Grenzlastintegral, $t < 10 \text{ ms}$ | $T_A = 25^\circ\text{C}$ | i^2t | 12 A ² s |
| Junction temperature – Sperrschichttemperatur | | T_j | -50...+150°C |
| Storage temperature – Lagerungstemperatur | | T_S | -50...+150°C |

1 Mounted on P.C. board with 50 mm² copper pads at each terminal
Montage auf Leiterplatte mit 50 mm² Kupferbelag (Lötpad) an jedem Anschluss

Characteristics

Kennwerte

| | | | | |
|---|---|------------------------------------|----------------|--|
| Forward voltage Durchlass-Spannung | $T_j = 25^\circ\text{C}$ | $I_F = 2\text{ A}$ | V_F | < 1.15 V |
| Leakage current Sperrstrom | $T_j = 25^\circ\text{C}$ $T_j = 100^\circ\text{C}$ | $V_R = V_{RRM}$ $V_R = V_{RRM}$ | I_R I_R | < 5 μA < 100 μA |
| Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft | | | R_{thA} | < 50 K/W ¹⁾ |
| Thermal resistance junction to terminal Wärmewiderstand Sperrschicht – Anschluss | | | R_{thT} | < 15 K/W |



1 Mounted on P.C. board with 50 mm² copper pads at each terminal
Montage auf Leiterplatte mit 50 mm² Kupferbelag (Löt-pad) an jedem Anschluss