

Inverter Grade SCRs

| $I_{T(RMS)}$ $T_c=65^\circ\text{C}$ 50% Duty Cycle, Half Sine 1KHz (Amps) | I_{TSM} (Amps) | | I_{DRM}/I_{RRM} @ Rated V_{DRM}/V_{RRM} and $T_{J(Max)}$ (mA) | I^2t for Fusing @ 8.3 ms ($A^2\text{sec} \times 10^4$) | V_{DRM}/V_{RRM} Range (Volts) | V_{TM} @ I_{TM} $T_J=25^\circ\text{C}$ | | Chip Size (mm) | Junction Temp. Range ($^\circ\text{C}$) | $R_{\theta JC}$ ($^\circ\text{C}/\text{W}$) | $t_{q(Max)}$ @ $T_{J(Max)}$ (μsec) |
|--|---------------------|-------|---|--|---------------------------------------|--|---------------------|----------------------|--|--|---|
| | 50 Hz | 60 Hz | | | | I_{TM} (Amps) | V_{TM} (Volts) | | | | |
| 250 | 1500 | 1600 | 15-18 | 1.06 | 500-1400 | 500 | 3.5 | 18 | -40 to 125 | .135 | 40 |
| 240 | 3200 | 3500 | 25 | 5.1 | 100-1200 | 625 | 2.35 | 23 | -40 to 125 | .13 | 10 to 50 |
| 250 | 3200 | 3500 | 20 | 5.1 | 100-800 | 1500 | 2.85 | 22 | -40 to 125 | .15 | 20 |
| 250 | 3600 | 4000 | 25 | 6.6 | 100-1200 | 625 | 2.1 | 23 | -40 to 125 | .13 | 10 to 50 |
| 250 | 1700 | 1800 | 17 | 1.34 | 100-600 | 500 | 3 | 18 | -40 to 125 | .13 | 10 |
| 250 | 1700 | 1800 | 17 | 1.34 | 100-600 | 500 | 3 | 18 | -40 to 125 | .13 | 20 |
| 260 | 1700 | 1800 | 17 | 1.34 | 100-800 | 500 | 2.6 | 18 | -40 to 125 | .135 | 10 |
| 260 | 1700 | 1800 | 17 | 1.34 | 100-800 | 500 | 2.6 | 18 | -40 to 125 | .135 | 20 |
| 270 | 4150 | 4500 | 25 | 8.4 | 100-1200 | 625 | 1.85 | 23 | -40 to 125 | .13 | 10 to 50 |
| 300 | 6400 | 7000 | 30 | 20.5 | 100-1200 | 625 | 1.65 | 33 | -40 to 125 | .10 | 25 to 60 |
| 300 | 5400 | 6000 | 35 | 15 | 1400-1800 | 1500 | 3.15 | 33 | -40 to 125 | .06 | 40 to 60 |
| 325 | 5000 | 5500 | 45 | 12.6 | 500-1200 | 3000 | 4.2 | 30 | -40 to 125 | .06 | 40 |
| 325 | 5000 | 5500 | 45 | 12.6 | 500-1200 | 3000 | 4.2 | 30 | -40 to 125 | .06 | 30 |
| 345 | 3200 | 3500 | 25 | 5.1 | 100-1200 | 625 | 2.35 | 23 | -40 to 125 | .08 | 10 to 50 |
| 375 | 3600 | 4000 | 25 | 6.6 | 100-1200 | 625 | 2.1 | 23 | -40 to 125 | .08 | 10 to 50 |
| 400 | 6400 | 6800 | 35 | 19.2 | 1400-1800 | 1500 | 2.2 | 33 | -40 to 125 | .06 | 80 to 100 |
| 410 | 6500 | 7000 | 30 | 20.4 | 100-1000 | 625 | 1.5 | 33 | -40 to 125 | .10 | 10 to 50 |
| 410 | 7300 | 8000 | 30 | 26.6 | 100-1400 | 625 | 1.45 | 33 | -40 to 125 | .10 | 25 to 60 |

* = 25°C Valuex = A_{SCR} , V_{RRM} = 10VDC Max.

| Qrr(Max) @ Tj=25°C (μcoul) | Min di/dt Repetitive on-State (A/μsec) | Min Critical dv/dt @ Tj(Max) (V/μsec) | Max VGT (V) | Max IGT (mA) | PACKAGE INFORMATION | | | |
|-------------------------------------|--|---|-------------------|--------------------|---------------------------------------|--------------|----------|------------|
| | | | | | Max Mounting Force or Torque | STYLE | Outline | TYPE NO. |
| 25 | 500 | 200 | 5 | 500 | <u>300 lb-in</u> 348 kg-cm | ¼-16 Stud | TO-93 | C185 |
| — | 500 | 200 | 5 | 300 | <u>800 lbs</u> 3.56 KN | Press Pak | TO-200AB | C358 |
| — | 200 | 300 | 3* | 150* | <u>300 lb-in</u> 348 kg-cm | ¼-16 Stud | TO-93 | T607 __ 13 |
| — | 250 | 300 | 3* | 150* | <u>300 lb-in</u> 348 kg-cm | ¼-16 Stud | TO-93 | T607 __ 15 |
| — | 500 | 200 | 5 | 200 | <u>800 lbs</u> 3.56 KN | Press Pak | TO-200AB | C354 |
| — | 500 | 100 | 5 | 200 | <u>800 lbs</u> 3.56 KN | Press Pak | TO-200AB | C355 |
| — | 500 | 200 | 5 | 400 | <u>800 lbs</u> 3.56 KN | Press Pak | TO-200AB | C364 |
| — | 500 | 200 | 5 | 400 | <u>800 lbs</u> 3.56 KN | Press Pak | TO-200AB | C365 |
| — | 300 | 300 | 3* | 150* | <u>300 lb-in</u> 348 kg-cm | ¼-16 Stud | TO-93 | T607 __ 18 |
| — | 300 | 300 | 3* | 150* | <u>360 lb-in</u> 420 kg-cm | ¼-16 Stud | T70 | T707 __ 25 |
| — | 300 | 300 | 3* | 150* | <u>2400 lbs</u> 10.7 KN | Press Pak | T72 | T72H __ 30 |
| — | 500 | 200 | 5 | 300 | <u>2000 lbs</u> 8.9 KN | Press Pak | TO-200AC | C387 |
| — | 500 | 200 | 5 | 300 | <u>2000 lbs</u> 8.9 KN | Press Pak | TO-200AC | C388 |
| — | 200 | 300 | 3* | 150* | <u>1400 lbs</u> 6.25 KN | Press Pak | T62 | T627 __ 15 |
| — | 250 | 300 | 3* | 150* | <u>1400 lbs</u> 6.25 KN | Press Pak | T62 | T627 __ 20 |
| — | 400 | 300 | 3* | 150* | <u>2400 lbs</u> 10.7 KN | Press Pak | T72 | T72H __ 42 |
| — | 300 | 300 | 3* | 150* | <u>360 lb-in</u> 420 kg-cm | ¼-16 Stud | T70 | T707 __ 28 |
| — | 400 | 300 | 3* | 150* | <u>360 lb-in</u> 420 kg-cm | ¼-16 Stud | T70 | T707 __ 30 |



JEDEC TO-83