



Solid State Devices, Inc.

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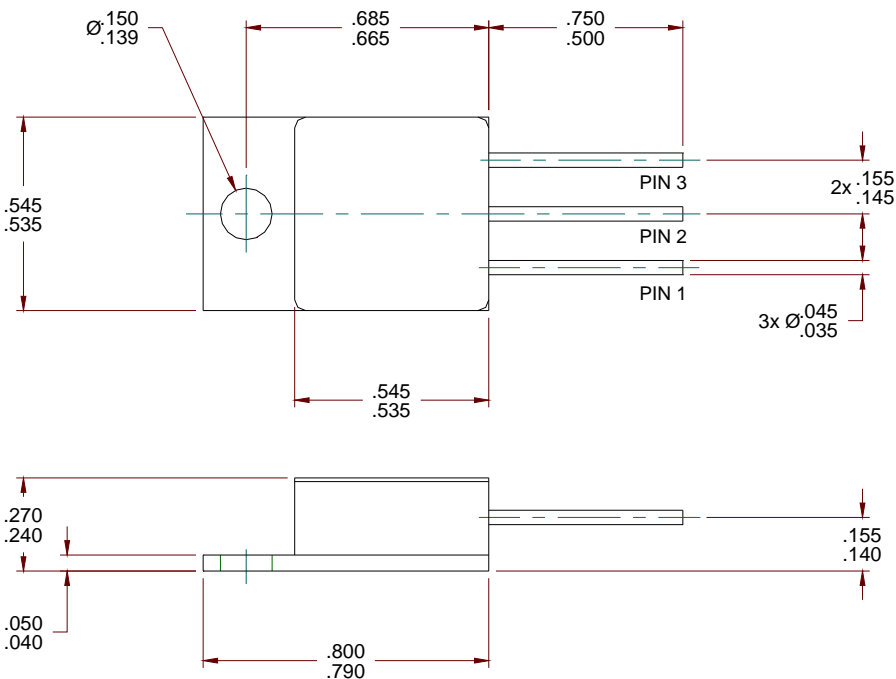
SSR50C60CT Series

| ELECTRICAL CHARACTERISTICS^{3/} | | Symbol | Min | Typ | Max | Units |
|---|-----------------------|-----------------------|------------|------------|------------|--------------|
| Instantaneous Forward Voltage Drop (T _J =25°C, 300μsec pulse) | I _F = 12 A | V_{F1} | — | 1.25 | 1.40 | Volts |
| | I _F = 25 A | | | 1.60 | 1.90 | |
| Instantaneous Forward Voltage Drop (T _J =150°C, 300μsec pulse) | I _F = 12 A | V_{F2} | — | 1.30 | 1.50 | Volts |
| | I _F = 25 A | | | 1.70 | 2.00 | |
| Instantaneous Forward Voltage Drop (T _J =-55°C, 300μsec pulse) | I _F = 12 A | V_{F3} | — | 1.25 | 1.40 | Volts |
| | I _F = 25 A | | | 1.50 | 1.90 | |
| Reverse Leakage Current (V _R = Rated V _R , T _J = 25°C, 300 μsec pulse) | | I_{R1} | — | 20 | 250 | μA |
| Reverse Leakage Current (V _R = Rated V _R , T _J = 150°C, 300 μsec pulse) | | I_{R2} | — | 50 | 1000 | μA |
| Junction Capacitance (V _R = 10V _{dc} , f = 1MHz, T _C = 25°C) | | C_J | — | 400 | — | pF |
| Total Capacitive Charge (V _R = 400V _{dc} , I _F =5A, di/dt=200A/μs, T _J =150 °C) | | Q_C | — | 50 | — | nC |

NOTES:

- 1/ For ordering information, price, and availability, contact factory.
- 2/ Screening based on MIL-PRF-19500. Screening flows available on request.
- 3/ Unless otherwise specified, all electrical characteristics @25°C
- 4/ If High temp operation is desired (>175°C), consult factory for soldering consideration.

Available Part Numbers: SSR50C50CTM, SSR50C60CTM



| PIN ASSIGNMENT | | | |
|-----------------------|--------------|--------------|--------------|
| Package | Pin 1 | Pin 2 | Pin 3 |
| TO-254 | Anode | Cathode | Anode |