

Mechanical Data

Package: TO-277

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, Halogen free

Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

Maximum Ratings ($T_a=25$ Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | SS15U100T |
|---|-----------|------------------|-----------|
| Device marking code | | | SS15U100T |
| Repetitive Peak Reverse Voltage | V_{RRM} | V | 100 |
| Average Rectified Output Current @60Hz -sine wave, R- load, $T_c=97.5$ | I_O | A | 15 |
| Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_a=25$ | I_{FSM} | A | 200 |
| Current Squared Time @1ms t 8.3ms $T_j=25$ | I^2t | A ² s | 166 |
| Storage Temperature | T_{stg} | | -55 ~+150 |
| Junction Temperature | T_j | | -55 ~+150 |

Electrical Characteristics ($T_a=25$ Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | TEST CONDITIONS | Min | Typ | Max |
|---------------------------|----------|------|-------------------------|-----|------|------|
| Peak Forward Voltage | V_{FM} | V | $I_{FM}=15.0A, T_j=25$ | - | 0.69 | 0.82 |
| | | | $I_{FM}=15.0A, T_j=125$ | - | 0.6 | 0.72 |
| Reverse Breakdown Voltage | V_{BR} | V | $I_R=0.5mA$ | 100 | - | - |
| Leakage Current | I_R | mA | $V_R=100V, T_j=25$ | - | - | 0.2 |
| | | | $V_R, T_j=25 -$ | | | |



SS15U100T

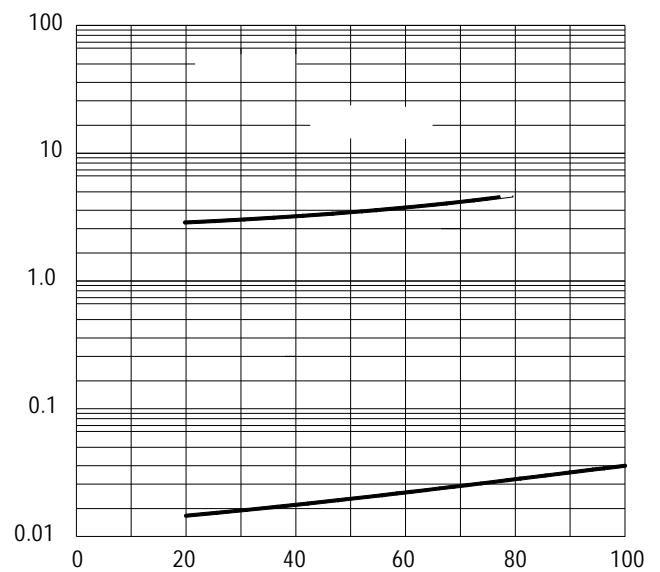
Thermal Characteristics ($T_a=25$ Unless otherwise specified)

| PARAMETER | | SYMBOL | UNIT | SS15U100T |
|--------------------|------------------|-----------|------|-----------|
| Thermal Resistance | Junction to Case | R_{J-C} | /W | 8 |

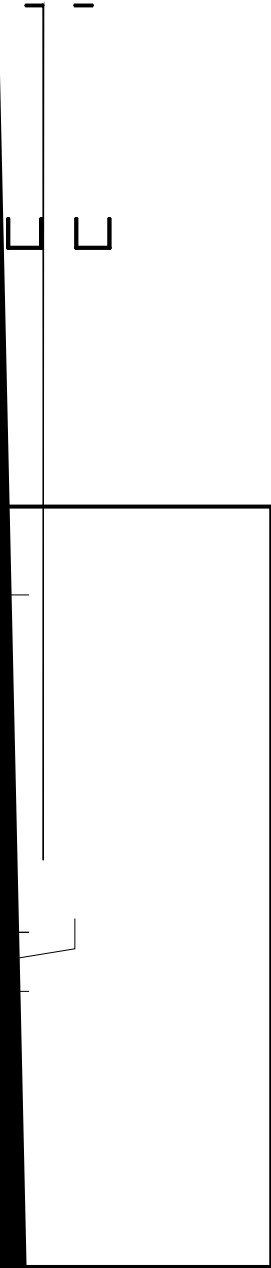
Ordering Information (Example)

| PREFERED P/N | PACKAGE CODE | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|--------------|--------------|--------------------|----------------------|-------------------------|----------------------------|---------------|
| SS15U100T | F1 | Approximate 0.0821 | 5000 | 10000 | 80000 | 13" reel |

Characteristics (Typical)



S15U100T



| TO-277 | | |
|--------|---------|---------|
| Dim | Min(mm) | Max(mm) |
| A | 3.9 | 4.1 |
| B | 1.7 | 1.9 |
| C | 6.4 | 6.6 |
| D | 5.3 | 5.5 |
| E | 0.8 | 1.0 |
| F | 1.8 | 1.9 |
| G | 0.35 | 0.45 |
| H | 1.10 | 1.20 |
| I | 4.1 | 4.5 |
| J | 1.5 | 1.9 |

| TO-277 | |
|--------|---------|
| Dim | Min(mm) |
| A | 3.36 |
| B | 4.86 |
| C | 0.85 |
| P | 1.84 |
| Q1 | 1.4 |
| Q2 | 1.4 |



SS15U100T

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