SOLID STATE DEVICES, INC.
SFF75N10M SFF75N10Z

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## DESIGNER'S DATA SHEET

## FEATURES:

- Rugged construction with poly silicon gate
- low RDS (on) and high transconductance

75 AMP 100 VOLTS<br>$0.025 \Omega$<br>N-CHANNEL<br>POWER MOSFET

TO-254 (M)
TO-254Z (Z)

- Very fast switching speed
- Fast recovery and superior dv/dt performance
- Increased reverse energy capability
- Low input and transfer capacitance for easy paralleling
- Ceramic seals for improved hermeticity
- Hermetically sealed package
- TX, TXV and Space Level screening available
- Replaces: IXTH75N10 Types


MAXIMUM RATINGS

| CHARACTERISTIC | SYMBOL | VALUE | UNIT |
| :---: | :---: | :---: | :---: |
| Drain to Source Voltage | $\mathrm{V}_{\text {DS }}$ | 100 | Volts |
| Gate to Source Voltage | $\mathrm{V}_{\mathrm{GS}}$ | $\pm 20$ | Volts |
| Continuous Drain Current | $\mathrm{I}_{\mathrm{D}}$ | $56^{1 /}$ | Amps |
| Operating and Storage Temperature | $\mathrm{T}_{\text {op }} \& \mathrm{~T}_{\text {stg }}$ | -55 to +150 | ${ }^{\circ} \mathrm{C}$ |
| Thermal Resistance, Junction to Case | $\mathrm{R}_{\boldsymbol{\theta J C}}$ | 0.83 | ${ }^{\circ} \mathrm{C} / \mathbf{W}$ |
| $\begin{array}{ll}\text { a } \\ \text { Total Device Dissipation } & \text { @ } \mathrm{TC}=\mathbf{2 5}{ }^{\circ} \mathrm{C} \\ & \text { @ TC }=55^{\circ} \mathrm{C}\end{array}$ | $\mathrm{P}_{\mathrm{D}}$ | $\begin{aligned} & \hline 150 \\ & 114 \\ & \hline \end{aligned}$ | Watts |
| Repetitive Avalanche Energy | $\mathrm{E}_{\text {AR }}$ | 30 | mJ |



[^0]

NOTES:
1/ Maximum current limited by package, die rated at 75A.


[^0]:    Available with Glass or Ceramic Seals. Contact Factory for details.

