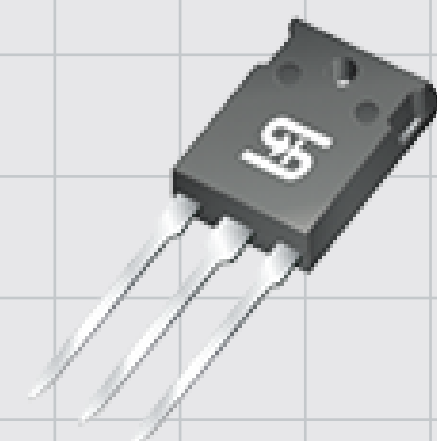


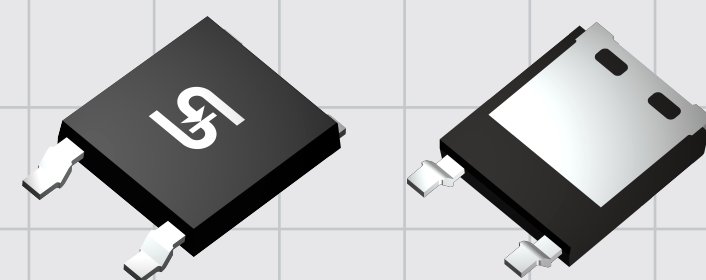
# Automotive 45-120V Trench Schottky in ThinDPAK and TO-247AD Packages

Taiwan Semiconductor is introducing its latest  $T_j$  175°C-rated Trench Schottky Rectifiers, now available in ThinDPAK and TO-247AD packages, delivering superior efficiency, thermal robustness, and system-level flexibility across automotive, industrial, and energy applications, enabling improved thermal performance in both compact and high-power designs. This release extends the existing 45–120V Trench Schottky portfolio with additional package options.

## PACKAGE



TO-247AD



ThinDPAK

## APPLICATIONS



DC/DC  
CONVERTER



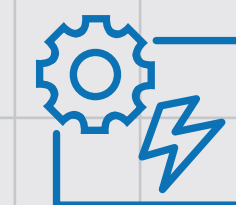
SWITCH MODE  
POWER SUPPLY



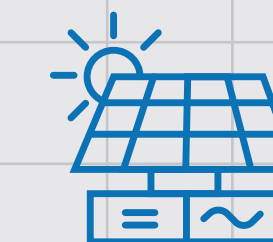
AUTOMOTIVE



LIGHTING

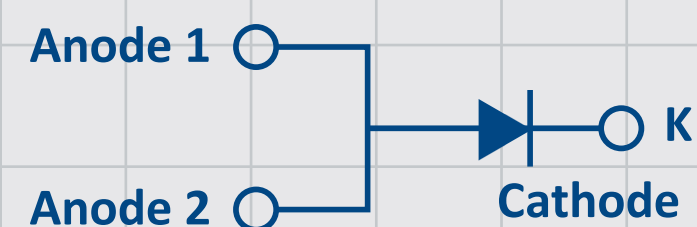


INDUSTRIAL  
POWER  
SUPPLY UNITS

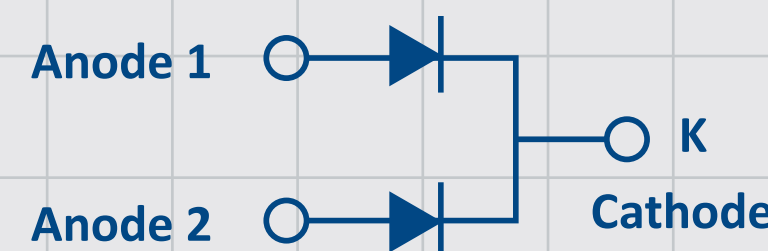


POWER  
INVERTER

## CONFIGURATION



SINGLE

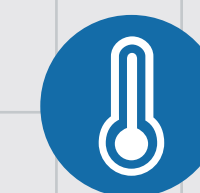


COMMON CATHODE

## FEATURES



AUTOMOTIVE  
QUALIFIED  
**AEC-Q101**



$T_j$  max, up to  
**175°C**



TRENCH SCHOTTKY  
TECHNOLOGY



LOW POWER LOSS  
HIGH EFFICIENCY

## SPECIFICATION

| Part number                     | $V_R$ Min<br>(V) | $I_F$ Max<br>(A) | $V_F$ $T_j=25^\circ\text{C}$ |                   | $I_R$<br>@ $T_A=25^\circ\text{C}$<br>max.( $\mu\text{A}$ ) | $I_R$<br>@ $T_A=125^\circ\text{C}$<br>max.(mA) | $I_{FSM}$<br>@8.3ms (A) |
|---------------------------------|------------------|------------------|------------------------------|-------------------|--|--|-------------------------|
|                                 |                  |                  | Typ.(V)                      | Max.(V)           |  |  |                         |
| TSAD10M45H<br> <br>TSAD35M60H   | 45<br> <br>60    | 5<br> <br>35     | 0.56<br> <br>0.71            | 0.63<br> <br>0.75 | 30<br> <br>200   | 10<br> <br>60                                  | 215<br> <br>470         |
| TSAD10H100H<br> <br>TSAD35H120H | 100<br> <br>120  | 10<br> <br>35    | 0.73<br> <br>0.82            | 0.80<br> <br>0.89 | 30<br> <br>30  | 4<br> <br>8                                    | 200<br> <br>420         |

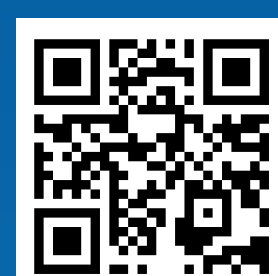
In the TSADxxMxxCH and TSADxxHxxxCH series, the part number designation indicates a common cathode configuration.



Official Website



X



LinkedIn

For more information: [marketing@ts.com.tw](mailto:marketing@ts.com.tw)

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[www.taiwansemi.com](http://www.taiwansemi.com)