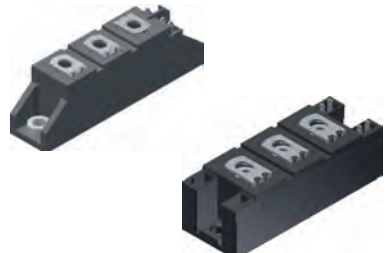
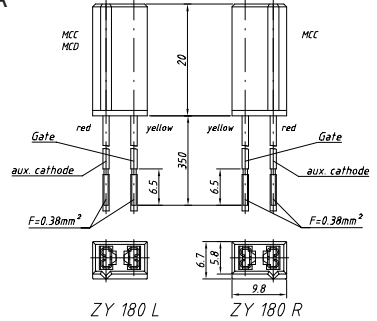


Optional Accessories for Thyristor / Diode Modules




For module types MCC/MCD/MCO/MCMA/MCNA 132, 161 up to 700 (for MCD/MCO only L-type):
Keyed Gate Cathode twin plugs
with wire length = 350 / 480 mm
gate = white, cathode = red

Type **ZY 180 L** (L = Left for pin pair 4/5)
Type **ZY 180 R** (R = Right for pin pair 6/7)

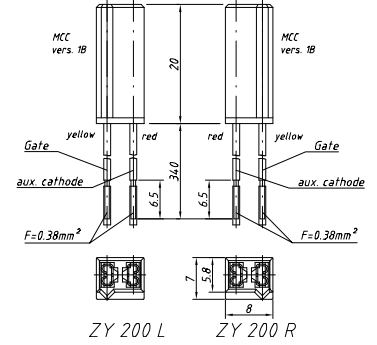


MCC
MCD
20
350
6.5
6.5
F=0.38mm²
Gate red yellow yellow red Gate
aux. cathode
ZY 180 L ZY 180 R



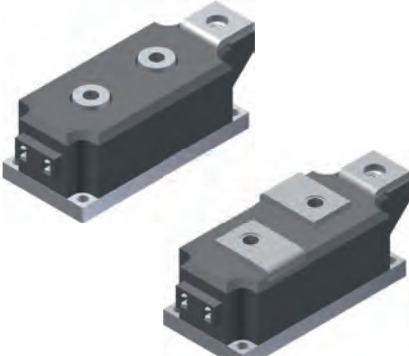
For module-type TO-240 package MCC/MCD/MCMA/MCNA 19 up to 120 and 140 (version 1):
Keyed Gate Cathode twin plugs with wire length = 340 / 460 mm;
gate = white, cathode = red

Type **ZY 200 L** (L = Left for pin pair 4/5)
Type **ZY 200 R** (R = Right for pin pair 6/7)



MCC vers. 1B
MCC vers. 1B
20
340
6.5
6.5
F=0.38mm²
Gate yellow red red yellow Gate
aux. cathode
ZY 200 L ZY 200 R

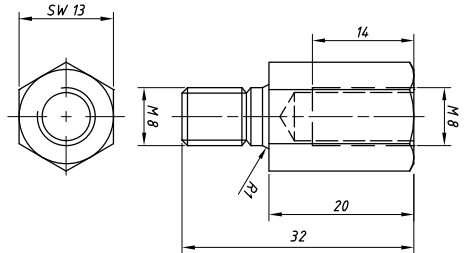
For ZY 180 and ZY 200: UL 758 Style 3751



For module types MCC/MCD/MDD 310
Threaded spacer for higher Anode / Cathode construction:

Type **ZY 250** (material brass)

Not for new design



SW 13
14
8 M
R1
20
32
8 M

Design Information

For Thyristors, Diodes, Thyristor / Diode Modules and Rectifier Bridges

Surge current	The 60 Hz value of I_{TSM} is 10% higher than the 50 Hz value The I_{TSM} value at T_{VJM} is 10% to 15% lower than the 45°C value
Limiting Pt	50 Hz: $I^2t [A^2s] = I_{TSM} [A] \cdot I_{TSM} [A] \cdot 0.005 [s]$; use rated I_{TSM} value (10 ms) 60 Hz: $I^2t [A^2s] = I_{TSM} [A] \cdot I_{TSM} [A] \cdot 0.0042 [s]$; use 60-Hz-value of I_{TSM}
Forward current	The average current ratings in tables are mostly specified for temperature conditions of: $T_A = 45^\circ C$, $T_C = 85^\circ C$ or $T_C = 100^\circ C$. For other temperature conditions the current ratings can be calculated using the following formulas applicable up to 400 Hz.
$I_{TAV} = \frac{-V_{T0} + \sqrt{V_{T0}^2 + 4 \cdot k^2 \cdot r_T \cdot P}}{2 \cdot k^2 \cdot r_T} \quad \text{where} \quad P = \frac{T_{VJM} - T_C}{R_{thJC}} \quad \text{or} \quad P = \frac{T_{VJM} - T_A}{R_{thJA}}$	
$I_{TAV} [A], P [W]; V_{T0} [V]; r_T [\Omega], T_{VJM} [^\circ C], T_C [^\circ C], T_A [^\circ C], R_{thJC} [K/W], R_{thJA} [K/W]$	
$k^2 = 1$ for DC current $k^2 = 2.5$ for sinusoidal half wave current $k^2 = 3$ for 120° rectangular current $k^2 = 6$ for 60° rectangular current	
The average forward current is limited by the RMS current value $I_{T(RMS)}$. When the calculated value I_{TAV} is higher than $I_{T(RMS)} / k$, replace it by $I_{TAV} = I_{T(RMS)} / k$.	

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