

$V_{\text{RRM}} = 800\text{-}1800 \text{ V}$
 $I_{\text{F(RMS)}} = 40 \text{ A}$
 $I_{\text{F(AVM)}} = 25 \text{ A}$

A = Anode C = Cathode

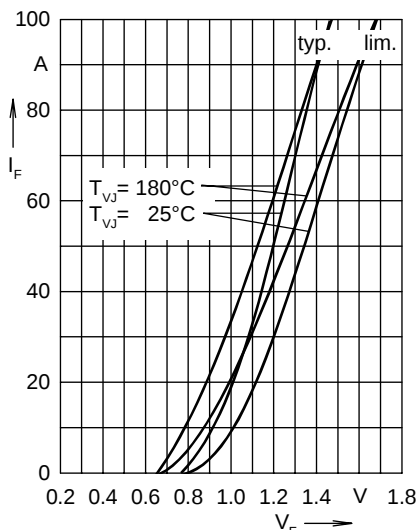


Fig. 1 Forward characteristics

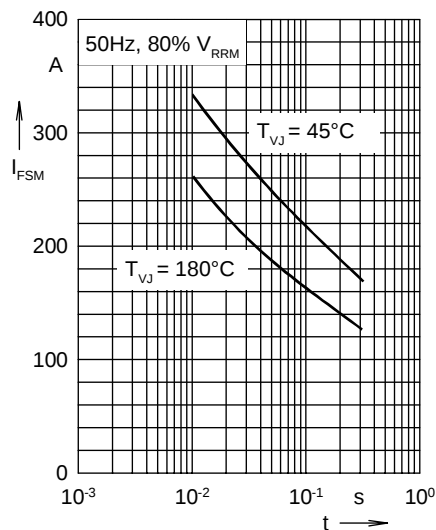


Fig. 2 Surge overload current
 I_{FSM} : crest value, t: duration

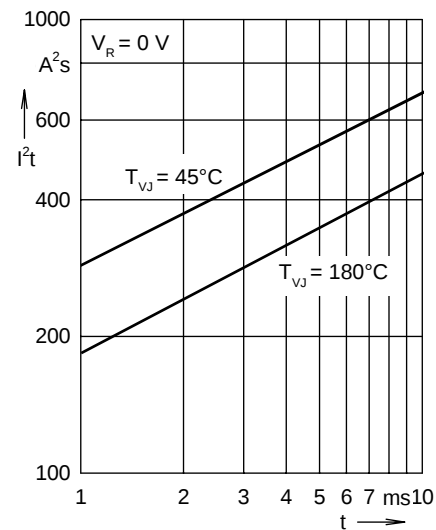


Fig. 3 I^2t versus time (1-10 ms)

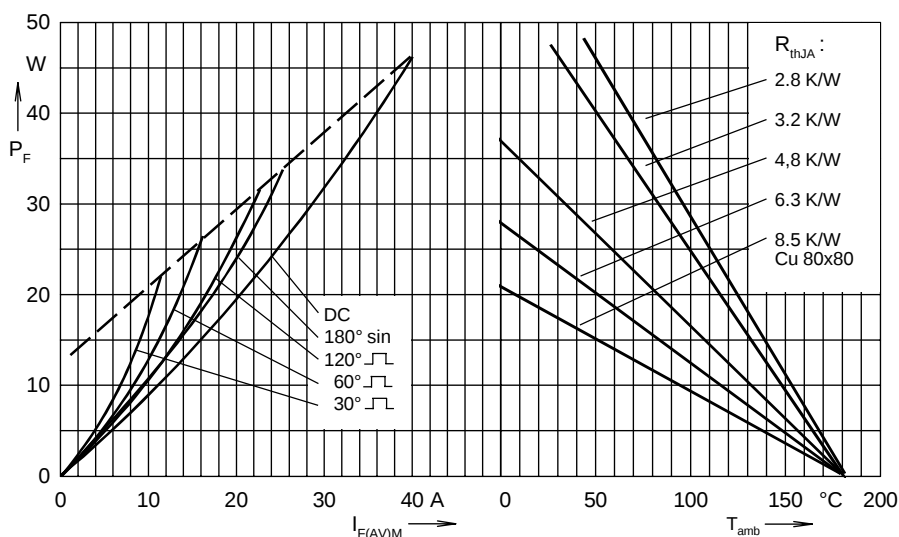


Fig. 4 Power dissipation versus forward current and ambient temperature

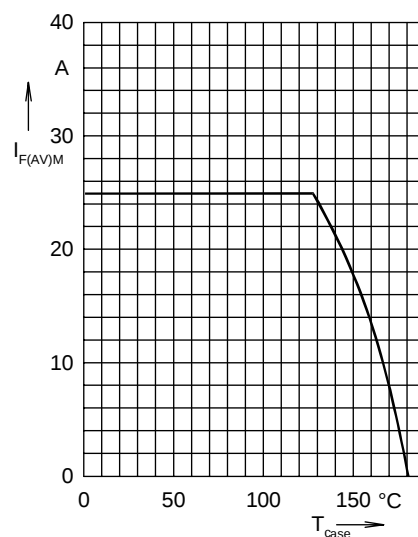


Fig. 5 Max. forward current at case temperature 180° sine

R_{thJH} for various conduction angles d:

d	R_{thJH} (K/W)
DC	2.10
180°	2.23
120°	2.33
60°	2.53
30°	2.72

Constants for Z_{thJH} calculation:

i	R_{thi} (K/W)	t_i (s)
1	0.1006	0.0021
2	0.5311	0.0881
3	0.8683	2.968
4	0.600	3.20

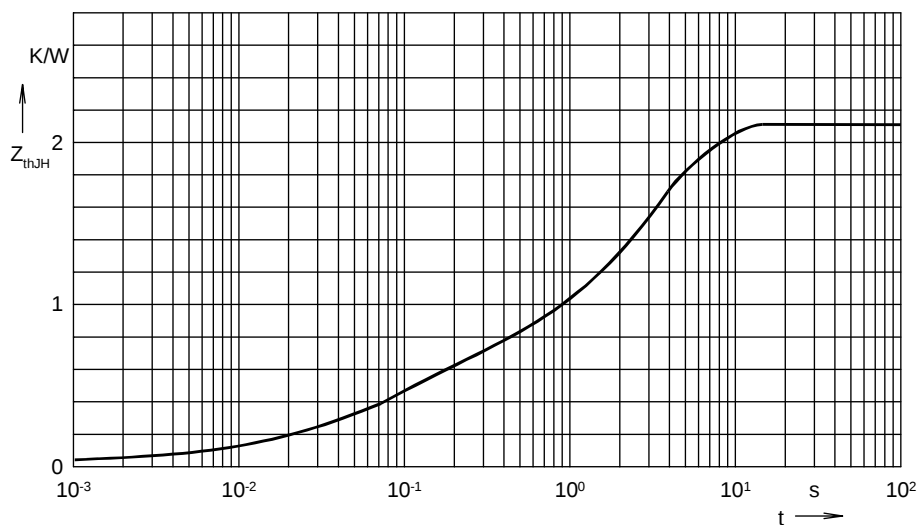


Fig. 6 Transient thermal impedance junction to heatsink