

Fig. 1 Forward characteristics

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

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

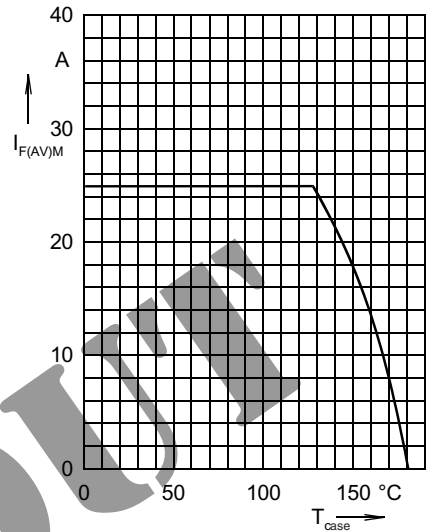
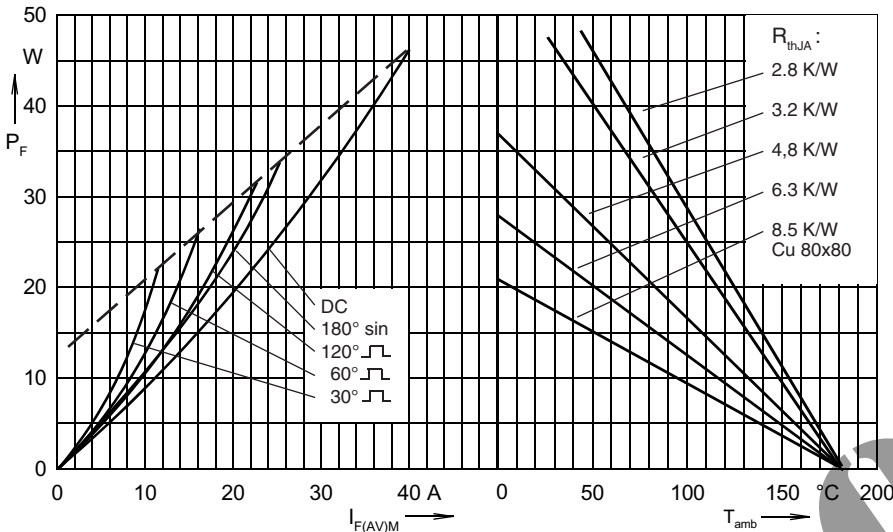
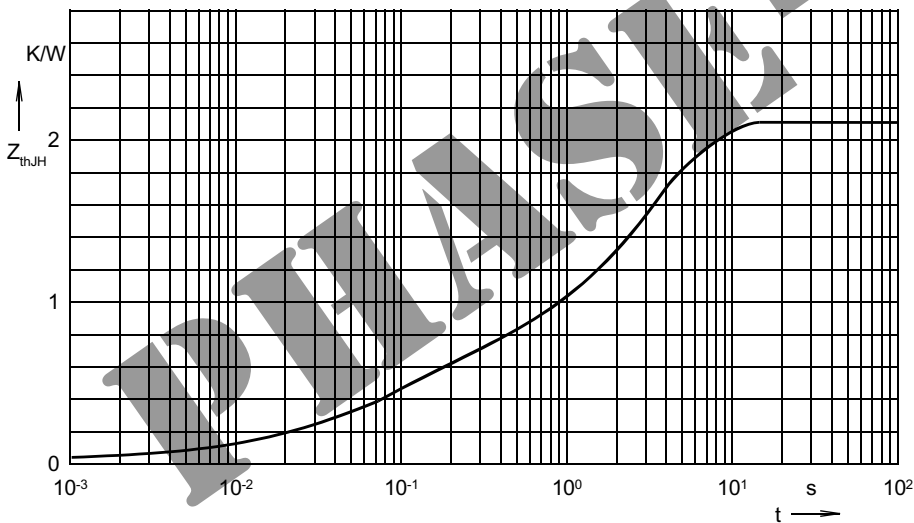


Fig. 4 Power dissipation versus forward current and ambient temperature

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

Type	Replacements
DSI17-12A	DSI2x55-12A; DMA50I1200HA
DSAI17-12A	DSI2x55-12A; DMA50I1200HA
DSAI17-16A	DSI2x55-12A; DMA50I1200HA
DSAI17-18A	contact factory
DS17-12A	DSI2x55-12A; DMA50I1200HA
DSA17-12A	DSI2x55-12A; DMA50I1200HA
DSA17-16A	DSI2x55-12A; DMA50I1200HA
DSA17-18A	contact factory

PHASE-OUT