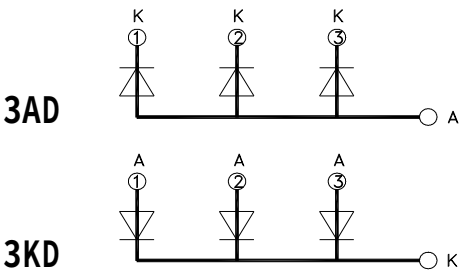
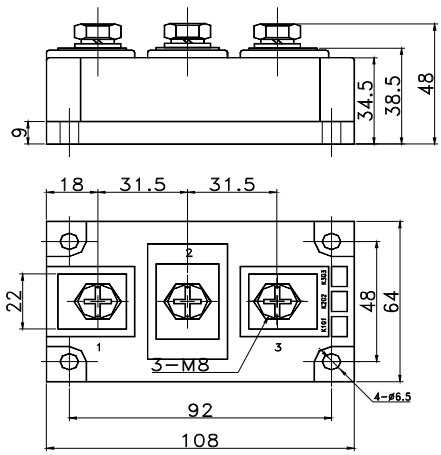
3AD250 3KD250 Charged part to case non-isolated

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j(°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled,T_C=100°C	150			250	A
$I_{F\ (RMS)}$	RMS forward current	Single side cooled,T_C=100°C	150			393	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms V_{RsM}= V_{DRM}&V_{RRM}+200V	150	600		1800	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			20	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}	150			9.80	KA
I^2t	I^2T for fusing coordination					490.0	A^2s*10^3
V_{FO}	Threshold voltage		150			0.80	V
r_F	Forward slop resistance					0.87	mΩ
V_{FM}	Peak forward voltage	I_{FM}=750A	25			1.53	V
$R_{th(j-c)}$	Thermal resistance Junction to heatsink	Single side cooled				0.150	°C /W
F_m	Terminal connection torque(M5)				4.5		N·m
	Mounting torque(M6)				3.0		N·m
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				680		g
Outline	404F4						

OUTLINE DRAWING & CIRCUIT DIAGRAM





Peak forward Voltage Vs.Peak forward Current

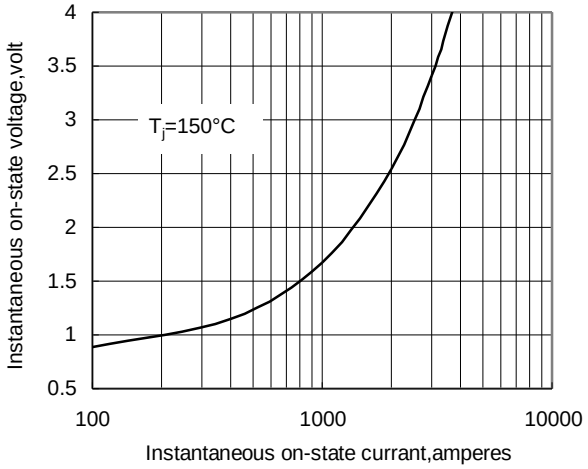


Fig.1

Max. junction To case Thermai Impedance

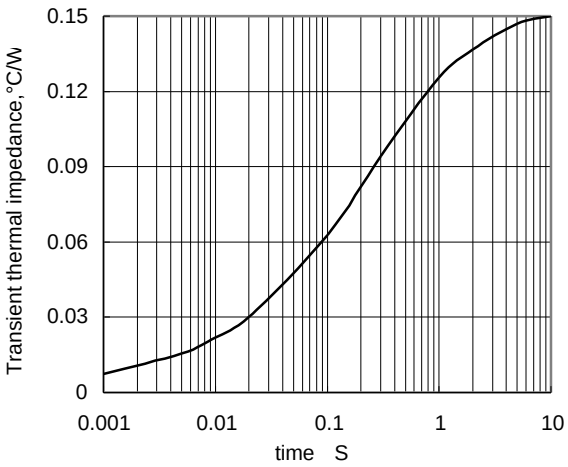


Fig.2

Max. Power Dissipation Vs.Mean forward Current

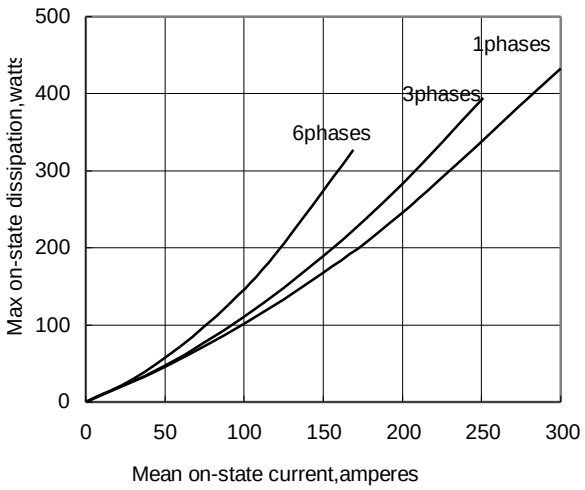


Fig.3

Max. case Temperature Vs.Mean forward Current

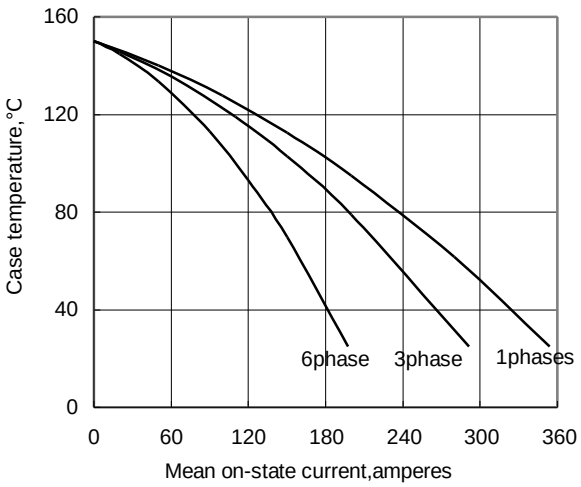


Fig.4

Max. Power Dissipation Vs.Mean forward Current

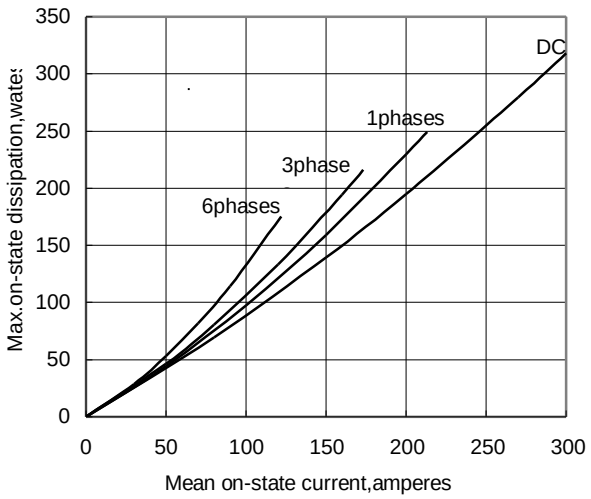


Fig.5

Max. case Temperature Vs.Mean forward Current

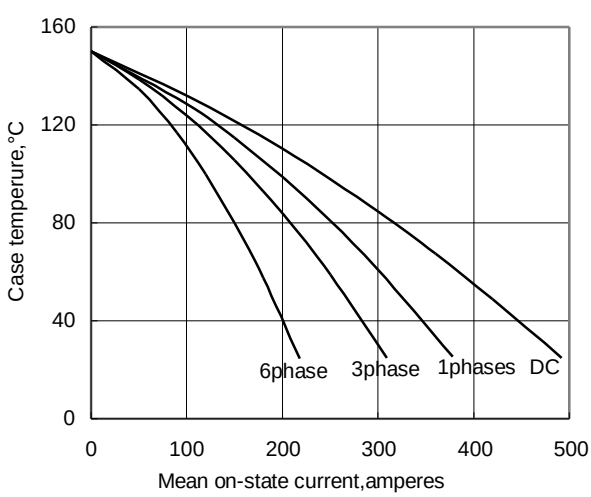


Fig.6