

FG3300AH-50DA

HIGH POWER INVERTER USE
PRESS PACK TYPE

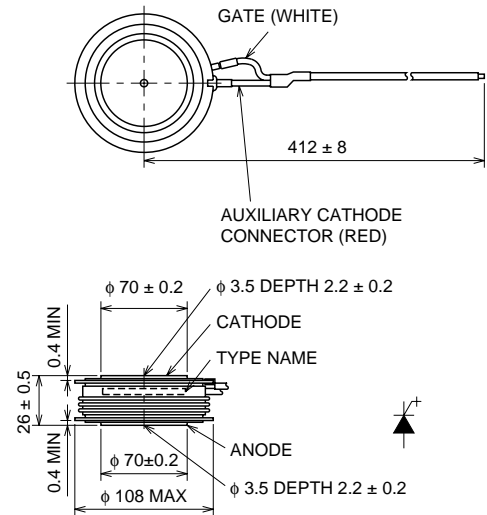
FG3300AH-50DA



- ITQRM Repetitive controllable on-state current 3300A
- IT(AV) Average on-state current 1000A
- VDRM Repetitive peak off state voltage 2500V
- Anode short type

OUTLINE DRAWING

Dimensions in mm



APPLICATION

Inverters, D.C. choppers, Induction heaters, D.C. to D.C. converters.

MAXIMUM RATINGS

Symbol	Parameter	Voltage class		Unit
		50DA		
VRRM	Repetitive peak reverse voltage	17		V
VRSM	Non-repetitive peak reverse voltage	17		V
VR(DC)	DC reverse voltage	17		V
VDRM	Repetitive peak off-state voltage*	2500		V
VD(SM)	Non-repetitive peak off-state voltage*	2500		V
VD(DC)	DC off-state voltage*	2000		V

* : VGK = -2V

Symbol	Parameter	Conditions	Ratings	Unit
ITQRM	Repetitive controllable on-state current	V _{DM} = 1875V, T _j = 125°C, C _S = 6.0μF, L _S = 0.2μH	3300	A
IT(RMS)	RMS on-state current		1570	A
IT(AV)	Average on-state current	f = 60Hz, sine wave θ = 180°, T _r = 81°C	1000	A
ITSM	Surge (non-repetitive) on-state current	One half cycle at 60Hz	24	kA
I ² t	Current-squared, time integration	One cycle at 60Hz	2.4 × 10 ⁶	A ² s
diT/dt	Critical rate of rise of on-state current	V _D = 1250V, I _{GM} = 40A, T _j = 125°C	500	A/μs
VFGM	Peak forward gate voltage		10	V
VRGM	Peak reverse gate voltage		17	V
IFGM	Peak forward gate current		100	A
IRGM	Peak gate reverse current		1100	A
PFGM	Peak forward gate power dissipation		400	W
PRGM	Peak reverse gate power dissipation		27	kW
PFG(AV)	Average forward gate power dissipation		100	W
PRG(AV)	Average reverse gate power dissipation		230	W
T _j	Junction temperature		-40 ~ +125	°C
T _{stg}	Storage temperature		-40 ~ +150	°C
—	Mounting force required	Recommended value 33	30 ~ 40	kN
—	Weight	Standard value	1220	g