

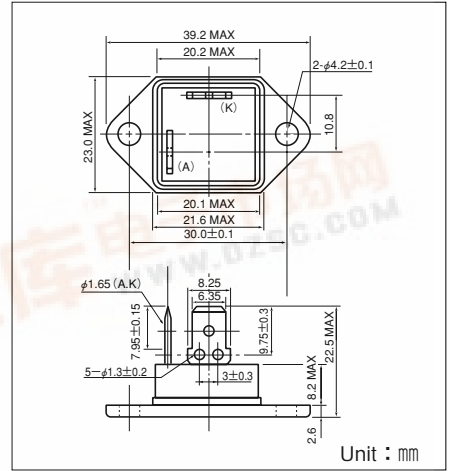
DIODE(ISOLATED MOLD TYPE)

DG20AA

UL;E76102 (M)

DG20AA is a medium power isolated module diode suitable for wide range of industrial and home electronics use. DG20AA is highly reliable by glass pasivation.

- $I_{F(AV)}=20A$, $V_{RRM}=1600V$
- Tab terminals for easy wiring.



Maximum Ratings

(Tj=25°C unless otherwise specified)

Symbol	Item	Ratings				Unit
		DG20AA40	DG20AA80	DG20AA120	DG20AA160	
VRRM	Repetitive Peak Reverse Voltage	400	800	1200	1600	V
VRSM	Non-Repetitive Peak Reverse Voltage	480	960	1300	1700	V

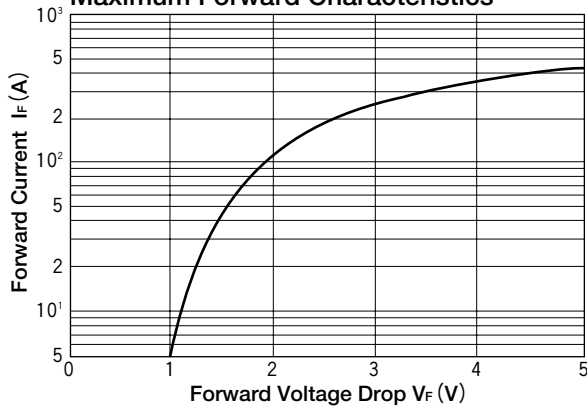
Symbol	Item	Conditions	Ratings	Unit
$I_{F(AV)}$	Average Forward Current	Single phase, half wave, 180°conduction, Tc : 101°C	20	A
$I_{F(RMS)}$	R.M.S. Forward Current	Single phase, half wave, 180°conduction, Tc : 101°C	31	A
I_{FSM}	Surge Forward Current	1/2cycle, 50Hz/60Hz, peak value, non-repetitive	410/450	A
I^2t	I^2t	Value for one cycle of surge current	840	A²S
Tj	Junction Temperature		-40 to +150	°C
Tstg	Storage Temperature		-40 to +125	°C
VISO	Isolation Breakdown Voltage (R.M.S.)	A.C.1minute	2500	°C
	Mounting Torque (M4)	Recommended Value 1.0-1.4 (10-14)	1.5 (15)	N·m (kgf·cm)
	Mass		23	g

Electrical Characteristics

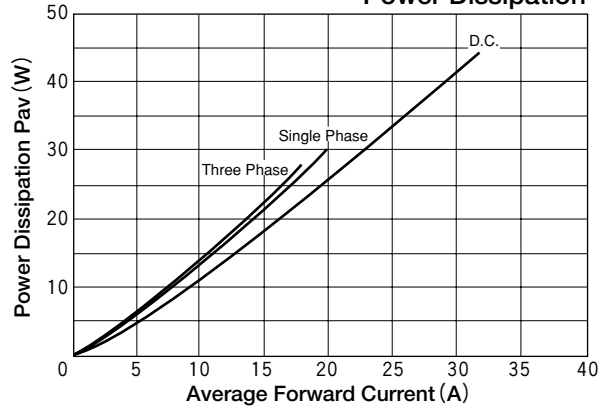
Symbol	Item	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max.	at VDRM, single phase, half wave, Tj=125°C	8	mA
VFM	Forward Voltage Drop, max.	Foward current 65A, Tj=25°C, Inst. measurement	1.65	V
Rth(j-c)	Thermal Impedance, max.	Junction to case	1.60	°C/W



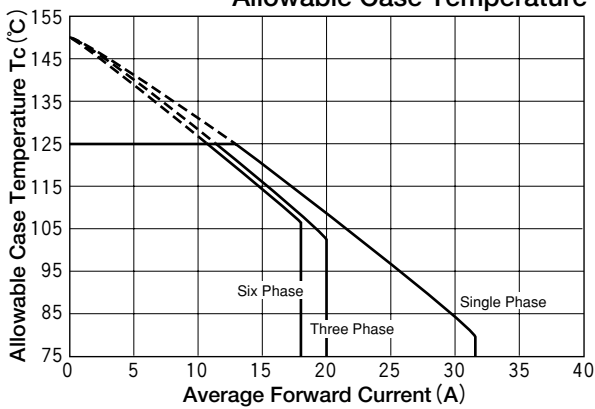
Maximum Forward Characteristics



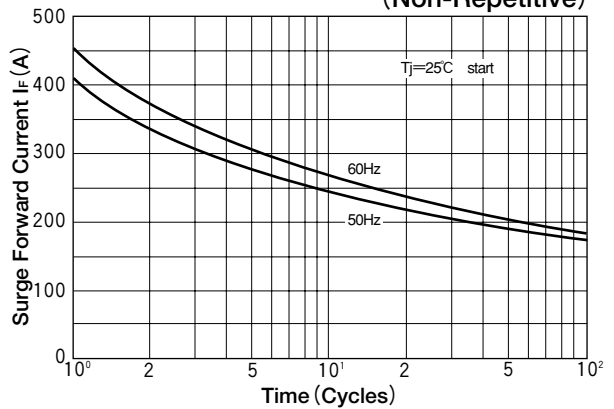
Average Forward Current vs. Power Dissipation



Average Forward Current vs. Allowable Case Temperature



Cycle Surge Forward Current Rating (Non-Repetitive)



Transient Thermal Impedance

