

Features:

- n Nin-Isolated.Mounting base as common anode cathode terminal.
- n Pressure contact technology with Increased power cycling capability
- n Space and weight saving

Typical Applications

- n Inverter
- n Inductive heating
- n Chopper

V _{RRM}	Type & Outline	
600V	MZ100-06-210F2NA	MZ100-06-210F2NK
800V	MZ100-08-210F2NA	MZ100-08-210F2NK
1000V	MZ100-10-210F2NA	MZ100-10-210F2NK
1200V	MZ100-12-210F2NA	MZ100-12-210F2NK
1400V	MZ100-14-210F2NA	MZ100-14-210F2NK
1600V	MZ100-16-210F2NA	MZ100-16-210F2NK
1800V	MZ100-18-210F2NA	MZ100-18-210F2NK

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	140			100	A
I _{F(RMS)}	RMS forward current					157	A
I _{RRM}	Repetitive peak current	at V _{RRM}	140			30	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}	140			3.5	kA
I ² t	I ² t for fusing coordination					61	A ² s*10 ³
V _{FO}	Threshold voltage		140			1.05	V
r _F	Forward slope resistance					1.80	mW
V _{FM}	Peak forward voltage	I _{FM} =300A	25			1.90	V
t _{rr}	Reverse recovery time	I _{FM} =200A, tp=4000µs, -di/dt=20A/µs, V _R =100V	140		4		µs
R _{th(j-c)}	Thermal resistance Junction to case	Single side cooled per chip				0.200	°C /W
R _{th(c-h)}	Thermal resistance case to heatsink	Single side cooled per chip				0.080	°C /W
F _m	Terminal connection torque(M6)				6.0		N·m
	Mounting torque(M6)				6.0		N·m
T _{vj}	Junction temperature			-40		140	°C
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				185		g
Outline	210F2						

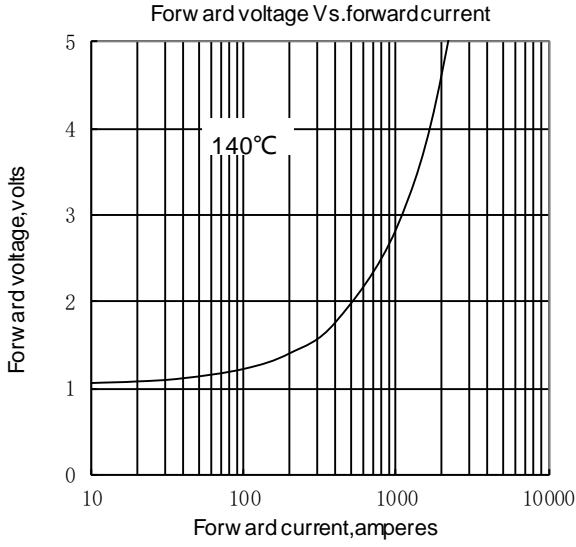


Fig.1

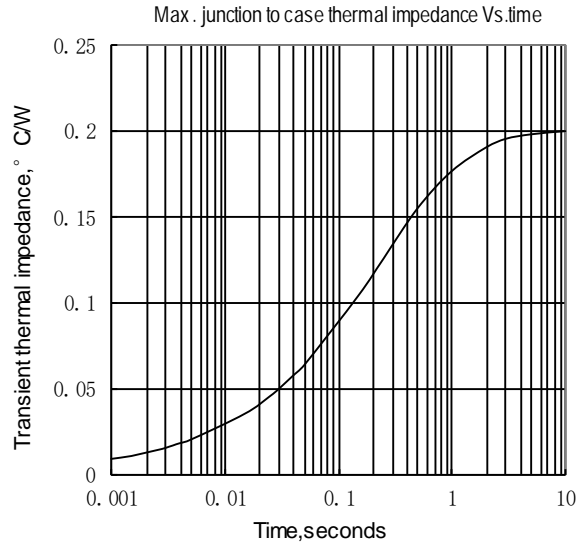


Fig.2

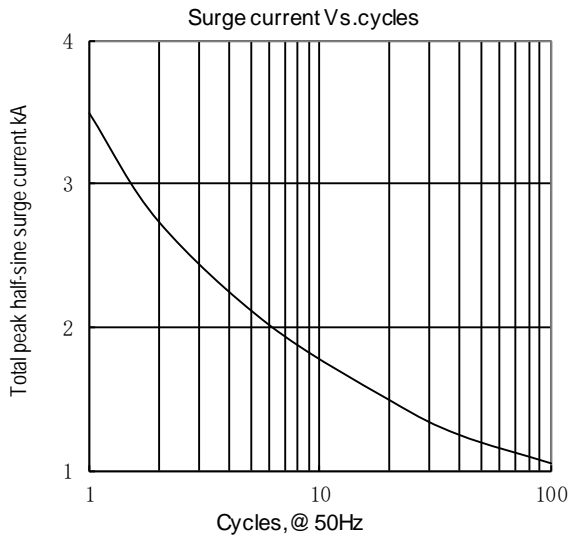


Fig.3

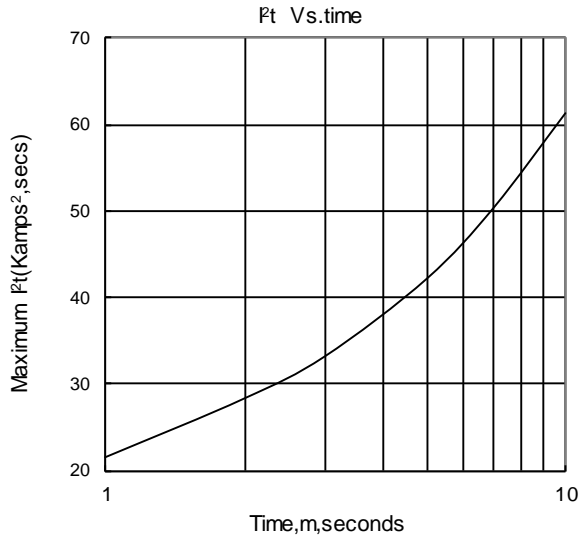
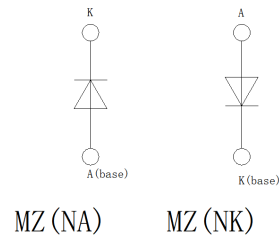
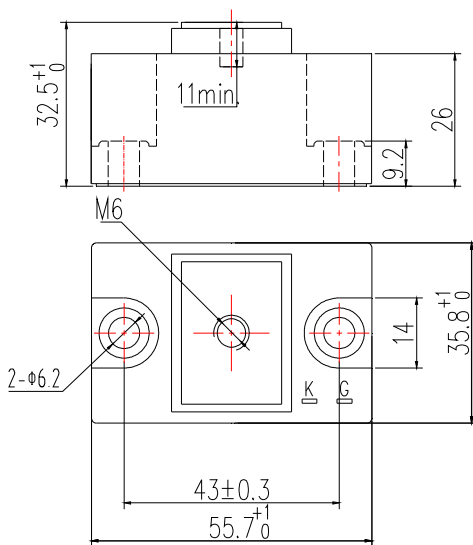


Fig.4

Outline:



Unmarked dimensional tolerance: $\pm 0.5\text{mm}$

TECHSEM reserves the right to change specifications without notice.