**Features:**

- Isolated mounting base 2500V~
- Pressure contact technology with Increased power cycling capability
- Space and weight saving

**Typical Applications**

- Inverter
- Inductive heating
- Chopper

$V_{RSM}$	$V_{RRM}$	Type & Outline
700V	600V	MZx300-06-405F3
900V	800V	MZx300-08-405F3
1100V	1000V	MZx300-10-405F3
1300V	1200V	MZx300-12-405F3
1500V	1400V	MZx300-14-405F3
1700V	1600V	MZx300-16-405F3

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}\text{C})$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=60^{\circ}\text{C}$	140			300	A
$I_{F(RMS)}$	RMS forward current					471	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	140			40	mA
$I_{FSM}$	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	140			6.00	kA
$I^2t$	$I^2t$ for fusing coordination					180	$\text{A}^2\text{s} \cdot 10^3$
$V_{FO}$	Threshold voltage		140			0.85	V
$r_F$	Forward slope resistance					1.06	m $\Omega$
$V_{FM}$	Peak forward voltage	$I_{FM}=900\text{A}$	25			2.05	V
$t_{rr}$	Reverse recovery time	$I_{FM}=300\text{A}$ , $t_p=1000\mu\text{s}$ , $-di/dt=20\text{A}/\mu\text{s}$ , $V_R=50\text{V}$	140		3.0		$\mu\text{s}$
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled per chip				0.160	$^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled per chip				0.040	$^{\circ}\text{C}/\text{W}$
$F_m$	Terminal connection torque(M8)				12.0		N·m
	Mounting torque(M6)				6.0		N·m
$T_{vj}$	Junction temperature			-40		140	$^{\circ}\text{C}$
$T_{stg}$	Stored temperature			-40		125	$^{\circ}\text{C}$
$W_t$	Weight				1055		g
Outline	405F3						

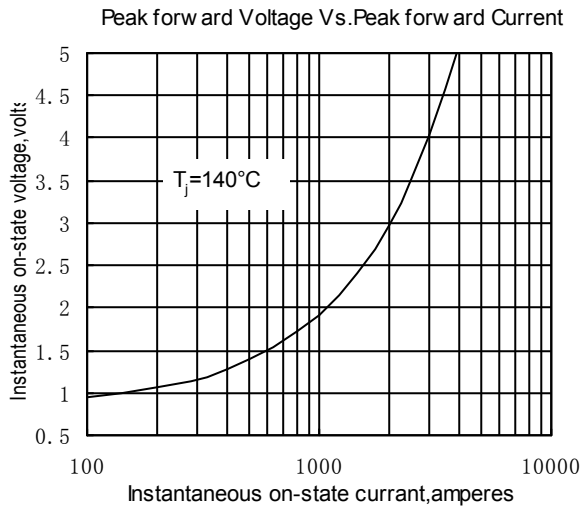


Fig.1

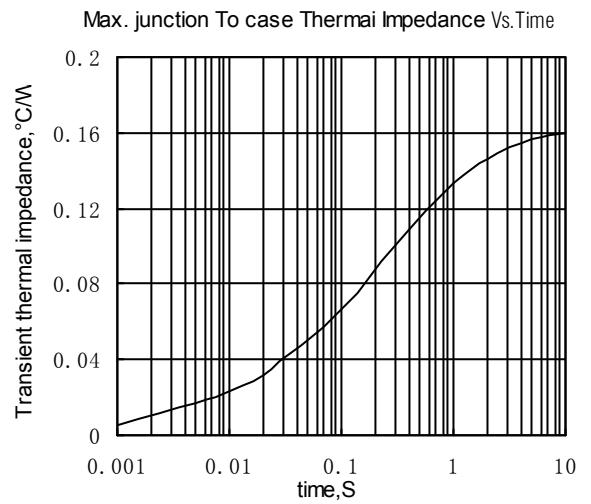


Fig.2

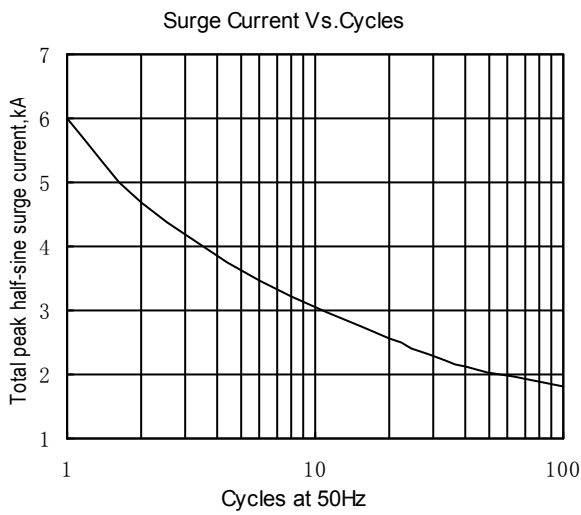


Fig.3

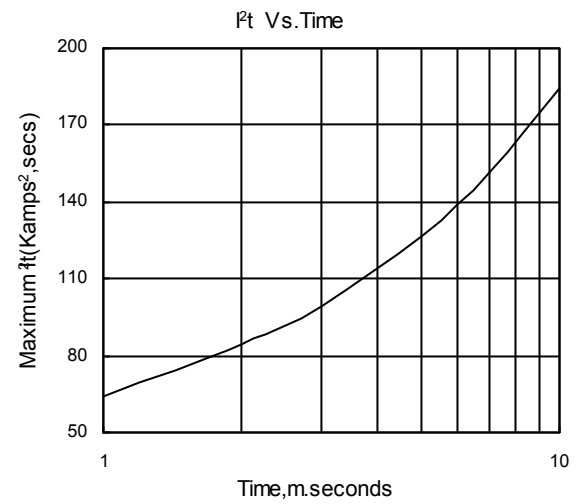


Fig.4

Outline:

