

Features:

- n Isolated mounting base 3400V~
- n Solder joint technology with Increased power cycling capability
- n Space and weight saving

Typical Applications

- n Inverter
- n Supplies for DC power equipment
- n Field supply for DC motors

V_{RSM}	V_{RRM}	Type & Outline
1700V	1600V	MDS240-16-256H5
1900V	1800V	MDS240-18-256H5
2100V	2000V	MDS240-20-256H5
2300V	2200V	MDS240-22-256H5

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
I_O	DC output current	Three-phase full wave rectifying circuit, $T_C=100^{\circ}C$	150			240	A
I_F	Diode forward current	$T_C=100^{\circ}C$	150			100	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150		2	8	mA
I_{FSM}	Surge forward current	10ms half sine wave	125			1.3	kA
I^2t	I^2t for fusing coordination	$V_R=0$				8.45	A^2s*10^3
V_{FM}	Peak forward voltage	$I_{FM}=200A$	150			1.45	V
			25			1.50	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled, per chip				0.32	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled, total				0.05	$^{\circ}C/W$
V_{iso}	Isolation voltage	50Hz,R.M.S,t=1min		3400			V
F_m	Mounting torque(M5)				4.0		N·m
T_{stg}	Stored temperature			-40		125	$^{\circ}C$
W_t	Weight				170		g
Outline	256H5						

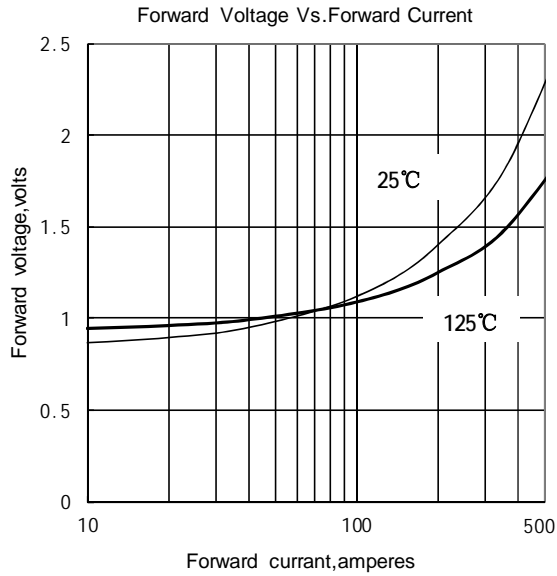


Fig.1

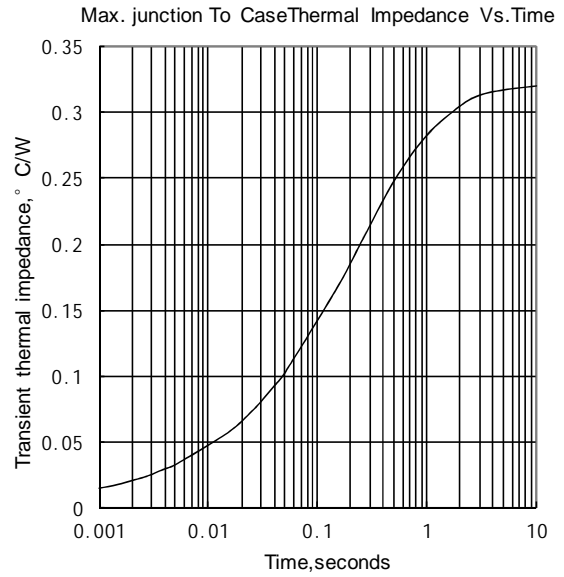


Fig.2

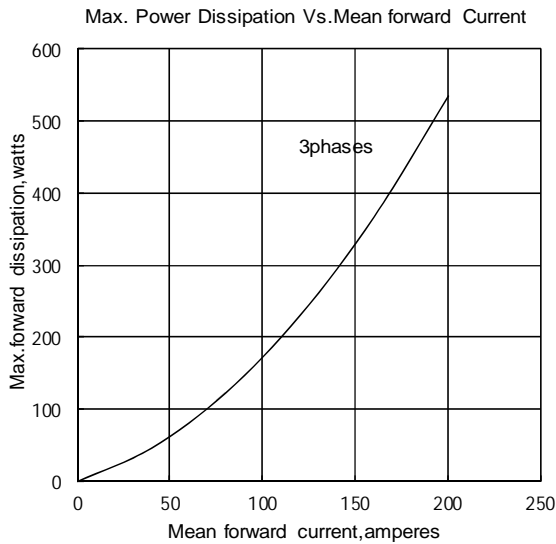


Fig.3

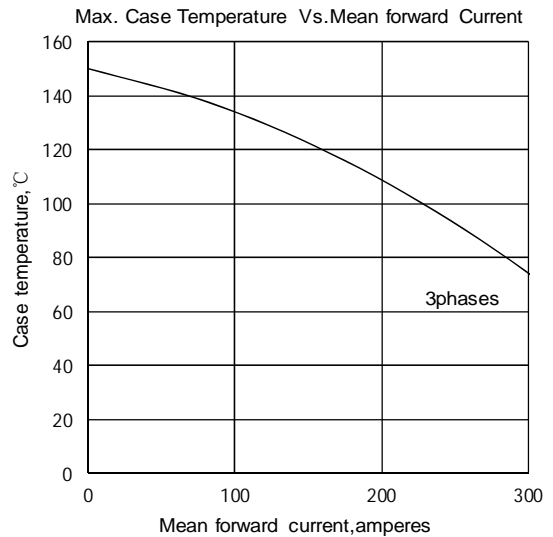


Fig.4

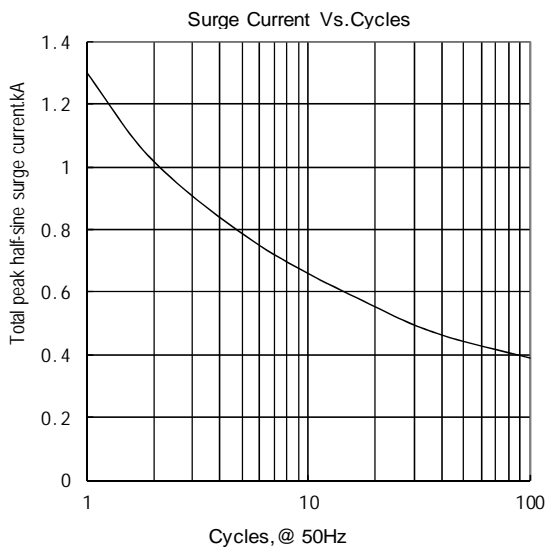


Fig.5

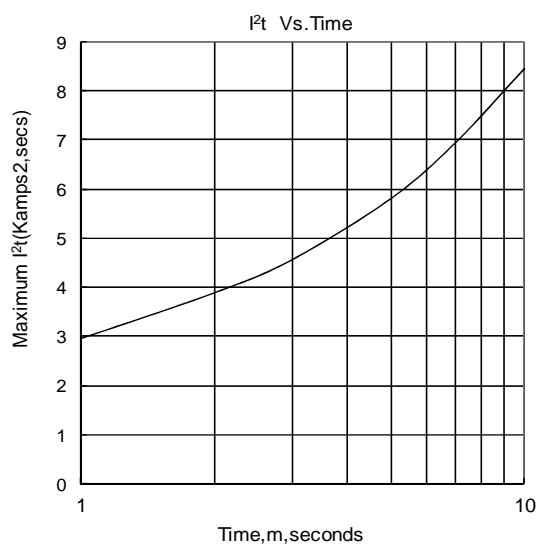
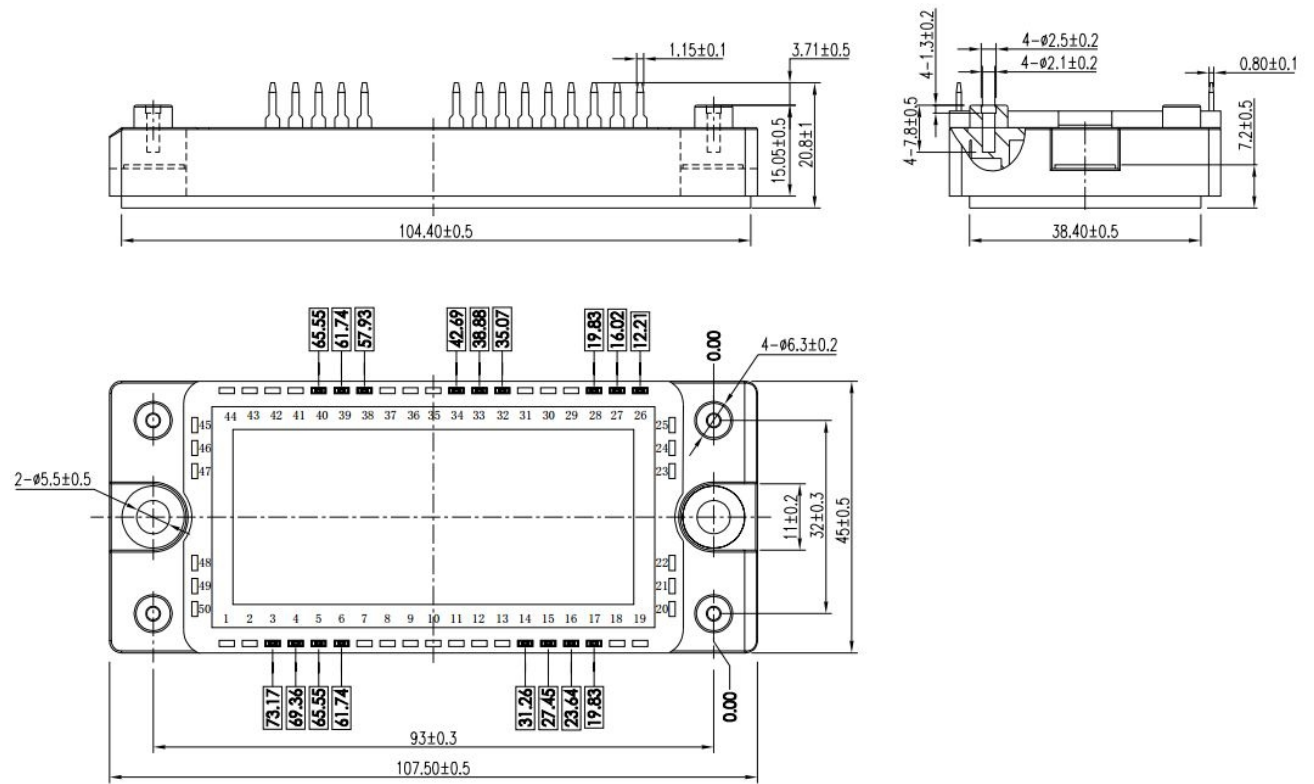


Fig.6

Outline:



Unmarked dimensional tolerance: ± 0.5 mm

Circuit diagram:

