

**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						

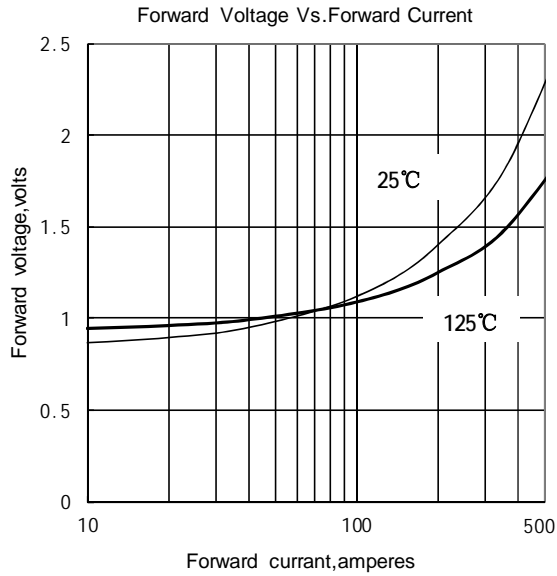


Fig.1

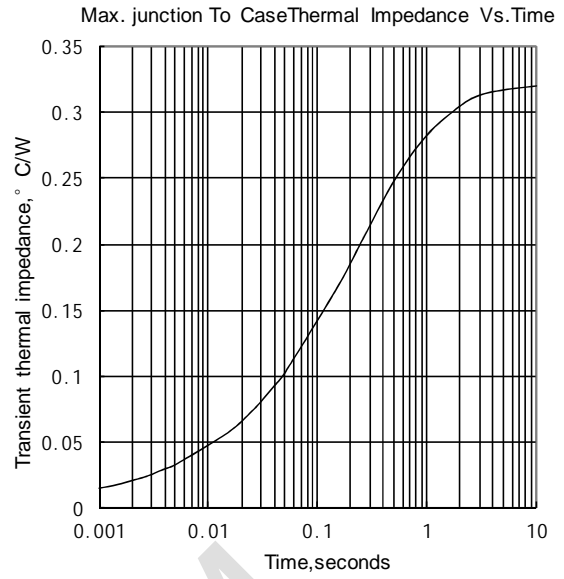


Fig.2

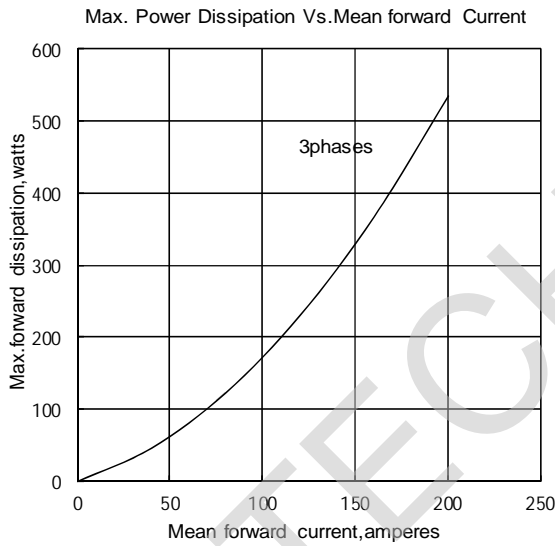


Fig.3

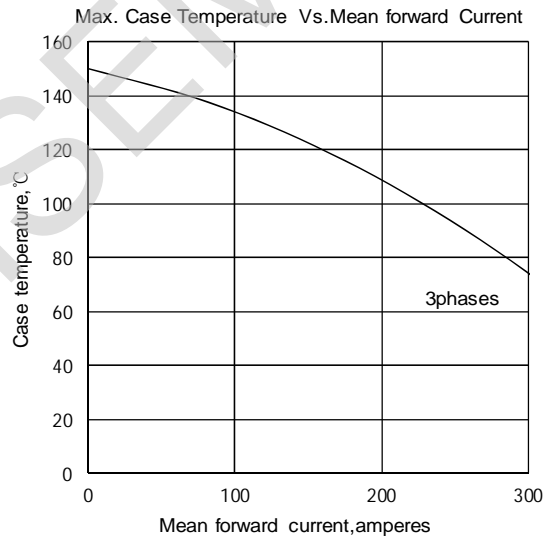


Fig.4

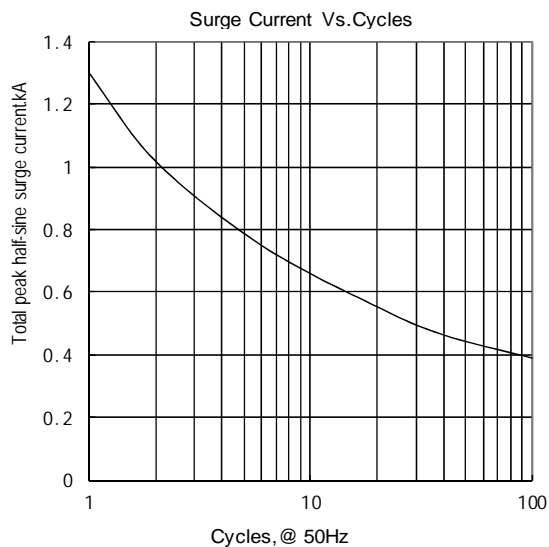


Fig.5

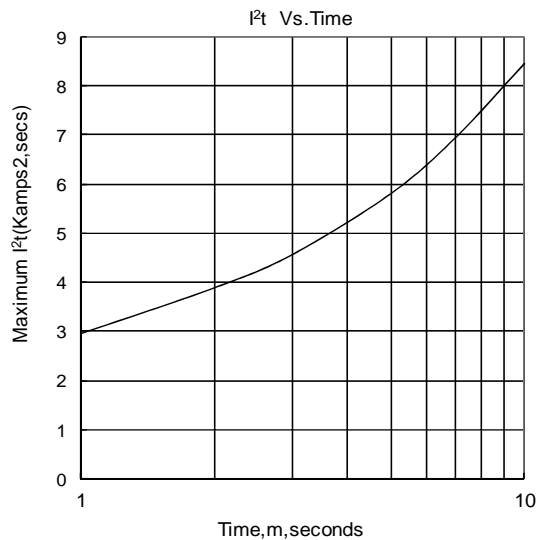
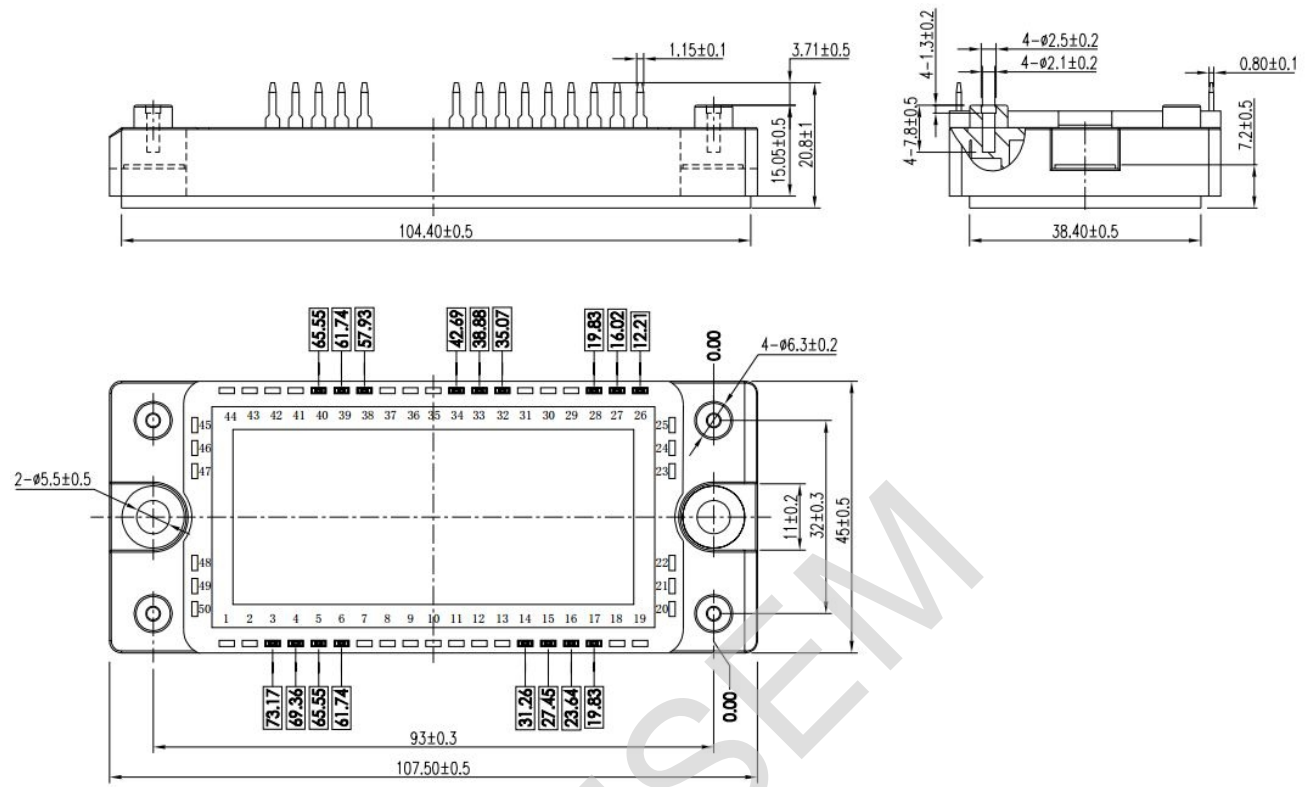


Fig.6

Outline:



Unmarked dimensional tolerance:  $\pm 0.5$ mm

Circuit diagram:

