

**MDS150**

High-end Power Semiconductor Manufacturer

**Three Phases Rectification Bridge Modules****Features:**

- Isolated mounting base 2500V
- Solder joint technology
- Space and weight savings

<b><math>I_o</math></b>	<b>150 A</b>
<b><math>V_{RRM}</math></b>	<b>600~2200 V</b>
<b><math>I_{FSM}</math></b>	<b>1.30 KA</b>
<b><math>I^2t</math></b>	<b>8.45 <math>10^3A^2S</math></b>

**Typical Applications**

- DC Power supplies for equipments.
- DC supply for PWM inverter
- Inverter Welder

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			150	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			12	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			1.3	kA
$I^2t$	$I^2t$ for fusing coordination	$V_R=0$				8.45	$10^3A^2s$
$V_{FO}$	Threshold voltage		150			0.75	V
$r_F$	Forward slope resistance					2.4	mW
$V_{FM}$	Peak forward voltage	$I_{FM}=150A$	25			1.40	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled, per total				0.14	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled, per total				0.07	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz,R.M.S,t=1min, $I_{iso}:1mA(max)$		2500			V
$F_m$	Terminal connection torque(M6)			4.5		6.0	N·m
	Mounting torque(M6)			4.5		6.0	N·m
$T_{vj}$	Junction temperature			-40		150	$^{\circ}C$
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight				240		g
Outline	T15						

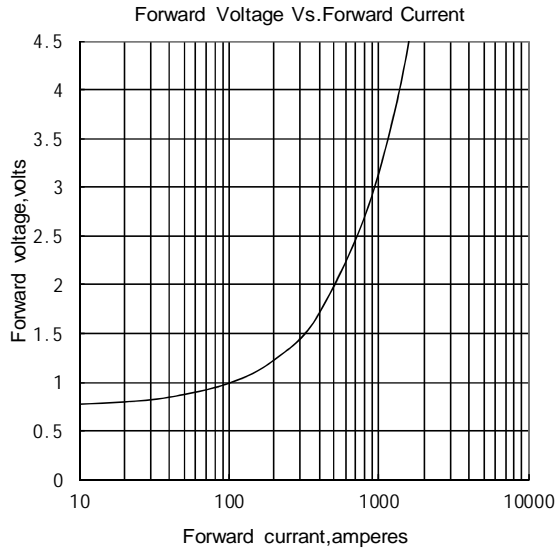


Fig.1

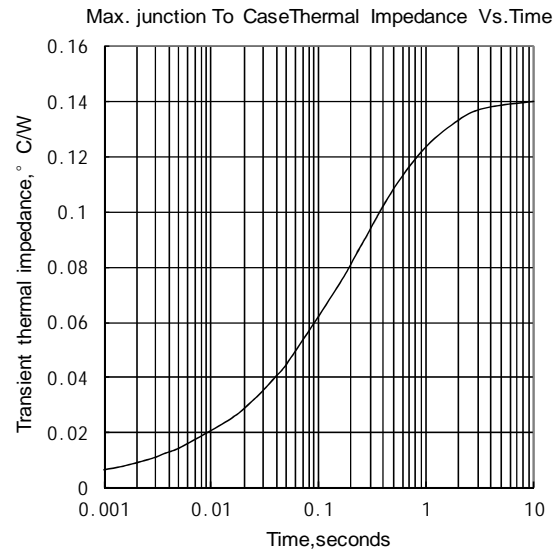


Fig.2

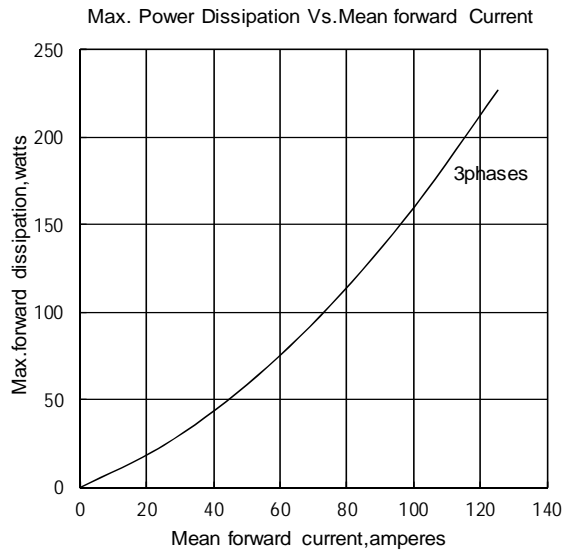


Fig.3

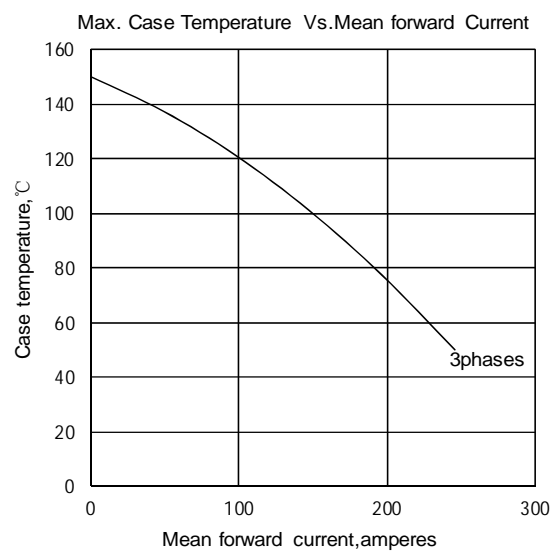


Fig.4

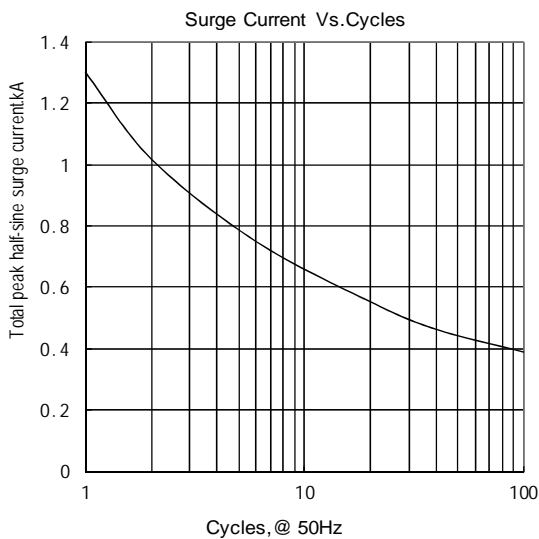


Fig.5

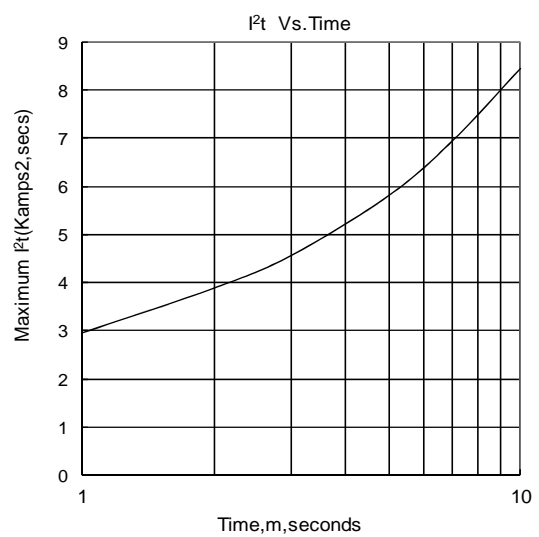
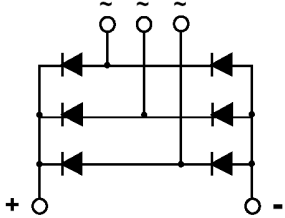
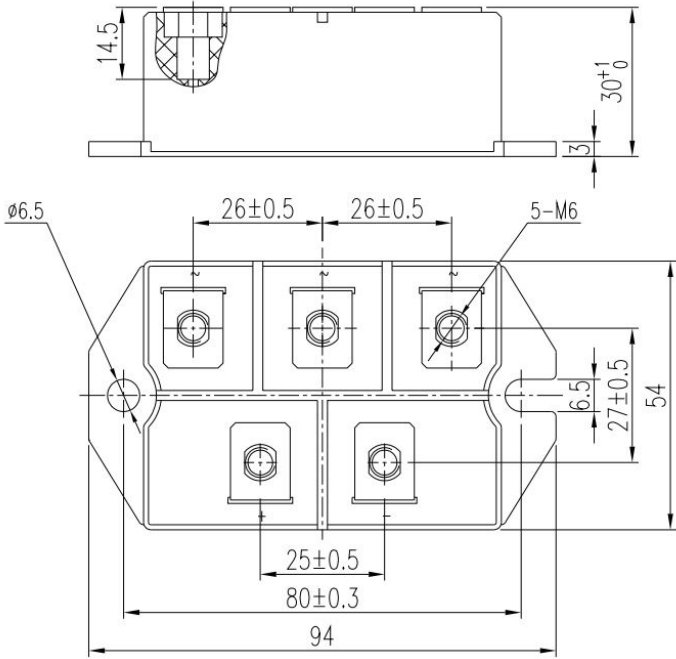


Fig.6

Outline:



Unmarked dimensional tolerance:  $\pm 0.5$ mm

T15