

Feature

The chips are electrically insulated from bottom plate, 2500V AC voltage
 Package as per international standard, welded structure, with excellent
 Temperature characteristics and power cycling capacity
 Maximum junction temperature up to 150, Low forward voltage drop

Typical application

DC power supply of appliance and device, input rectifying power supply
 of PWM frequency transformer
 Excitation source of appliance and device, input rectifying of switching power supply
 Charging of soft starting capacitor, Electric towage and auxiliary current
 Inversion welder, Current charging DC power supply

I_D	75A
V_{RRM}	600-2000V
I_{FSM}	1.2 KA
I^2t	7.1 $10^3 a^2s$

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_J (°C)	VALUE		UNIT
				Min	Max	
I_D	Output Current (D.C.)	$T_C=100^\circ C$	150		75	A
V_{iso}	Insulation voltage		150	2500		A
V_{RRM}	Repetitive peak reverse voltage	$V_{DSM} \& V_{RSM} = V_{DRM} \& V_{RRM} + 200V$	150	600	2000	V
I_{RRM}	Repetitive peak current	$V_{RM} = V_{RRM}$	150		8	mA
I_{FSM}	Surge on-state current	10ms half sine wave $V_R = 0.6V_{RRM}$	150		1.2	KA
I^2t	I^2t for fusing coordination				7.2	$A^2s \times 10$
V_{FO}	Threshold voltage		150		0.8	V
R_F	On-state slope resistance				9	mΩ
V_{FM}	Peak on-state voltage	$I_{TM} = 110A$	25		1.3	V
$R_{th(j-c)}$	Thermal impedance node to the shell	180 ° sine wave, single heat sink			0.2	°C/W
$R_{th(c-h)}$	Thermal impedance (shell to powder)	180 ° sine wave, single heat sink			0.15	°C/W
F_M	Mounting force (M5)				4	N-m
	Mounting force (M6)				6	N-m
T_{stq}	Stored temperature			-40	125	°C
W_t	Weight					g
Outline						

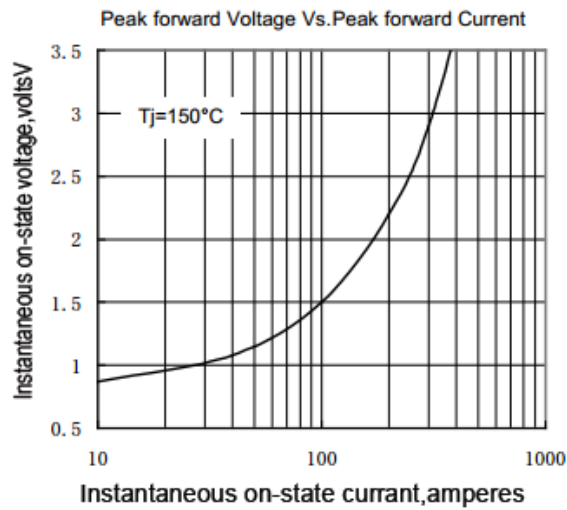


Fig.1

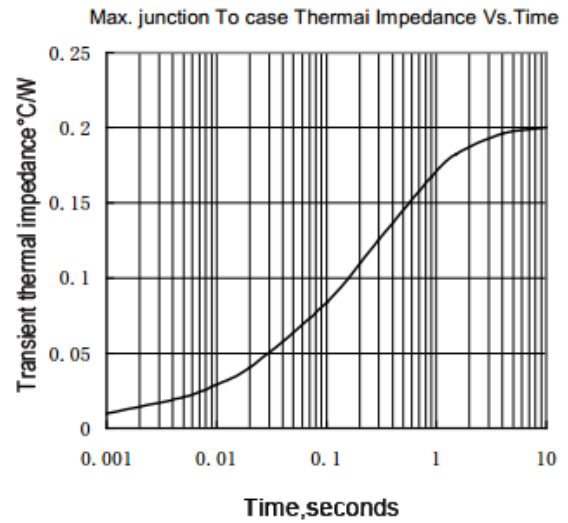


Fig.2

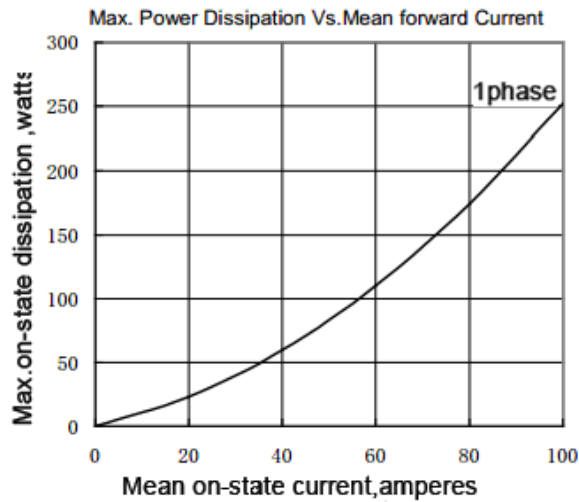


Fig.3

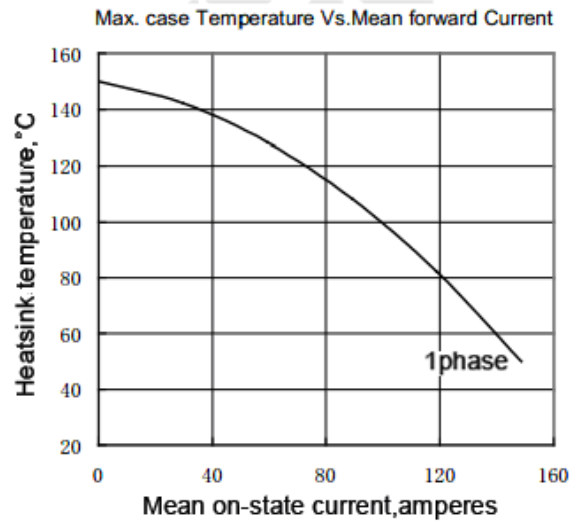


Fig.4

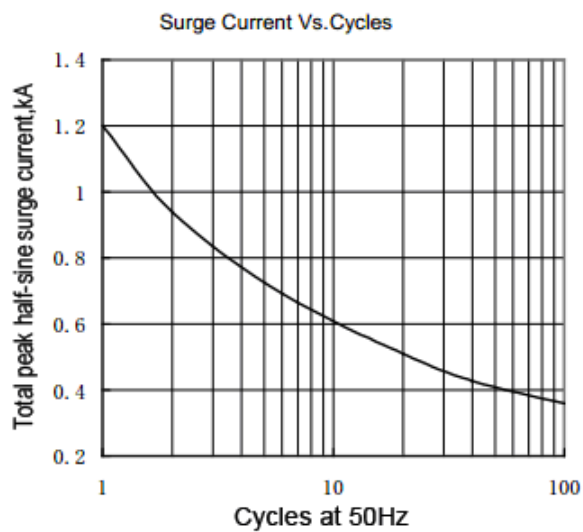


Fig.7

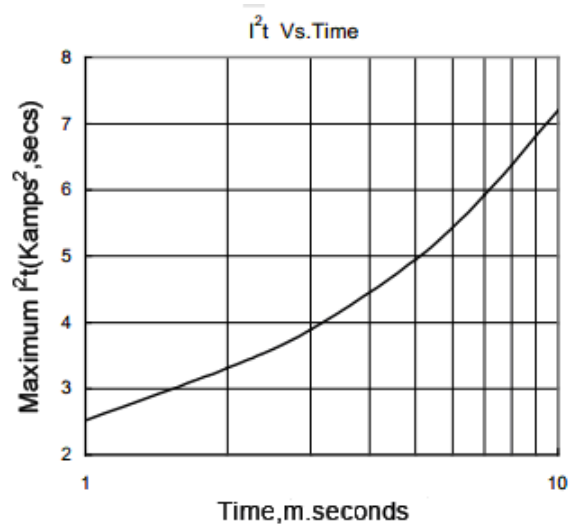
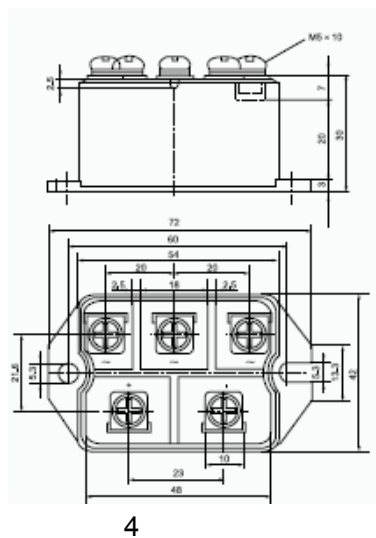
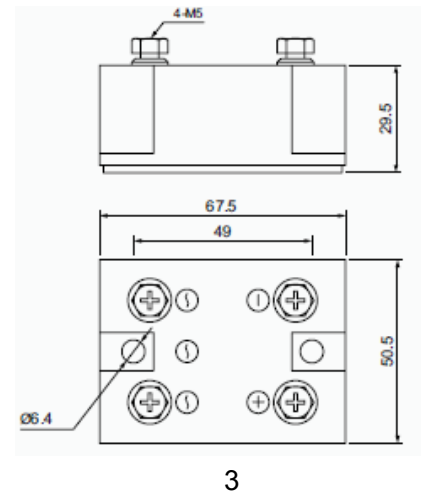
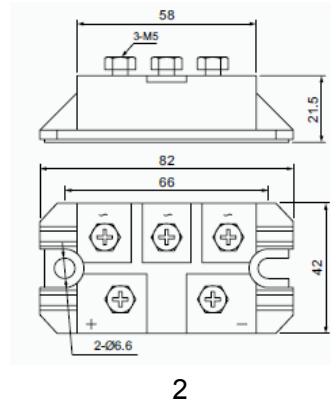
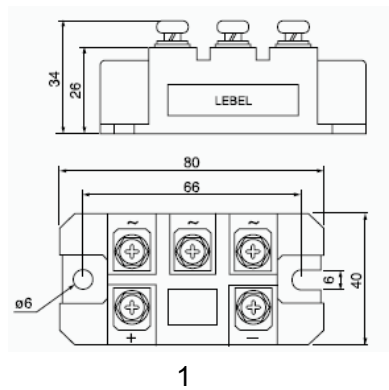


Fig.8

Outline:



Circuit Drawing:

