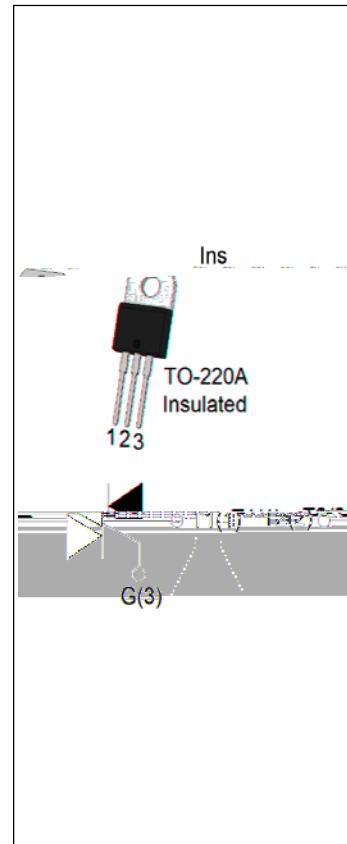




## DESCRIPTION:

參數	說明	單位
額定電壓	600V	V
額定電流	16A	A
反向電壓	60V	V
漏電流	-0.05mA	mA
閘極電流	5mA	mA



## MAIN FEATURES

參數	說明	單位
$I_{\text{R}}^{\text{S}}$	6	A
$V_{\text{R}}^{\text{N}}$	60	V
$I_{\text{G}}^{\text{I/II/III}}$	5	mA

## ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
$T_{\text{J}}$	$T_{\text{J}}$	-40 to 80	°C
$T_{\text{J}}$	$T_{\text{J}}$	-40 to 80	°C
$V_{\text{R}}$ - $T = -55^{\circ}\text{C}$ to $125^{\circ}\text{C}$	$V_{\text{R}}$	0	V
$V_{\text{R}}$ - $T = -55^{\circ}\text{C}$ to $125^{\circ}\text{C}$	$V_{\text{R}}$	0	V
$I_{\text{R}}$ - $T = -55^{\circ}\text{C}$ to $125^{\circ}\text{C}$ , $\text{c} \leq 8^{\circ}\text{C}$	$I_{\text{R}}$	6	A
$I_{\text{R}}$ - $T = -55^{\circ}\text{C}$ to $125^{\circ}\text{C}$ , $\text{p}_{\text{GT}} \geq 10^{\circ}\text{C}$	$I_{\text{R}}$	0	A
$I_{\text{R}}$ - $T = -55^{\circ}\text{C}$ to $125^{\circ}\text{C}$ , $\text{p}_{\text{GT}} \geq 10^{\circ}\text{C}$	$I_{\text{R}}$	6	A
$I^2t$ - $T = 0^{\circ}\text{C}$ to $125^{\circ}\text{C}$	$I^2t$	2	A <sup>2</sup> s
$dI/dt$ - $T = 0^{\circ}\text{C}$ to $125^{\circ}\text{C}$	$dI/dt$	0	A/ $\mu$ s
$I_{\text{G}}$ - $T = 0^{\circ}\text{C}$ to $125^{\circ}\text{C}$	$I_{\text{G}}$	4	A

$I_{GSS}$	$V_D = 0 \text{ V}$	$P_G$	0	W
$I_{GS}$	$V_D = 0 \text{ V}$	$P_G$	0	W
$V_D$	$T_{jS} = 25^\circ\text{C}$	$V_P$	3	kV

ELECTRICAL CHARACTERISTICS  $T_{jS} = 25^\circ\text{C}$ 

Symbol	Test Condition	Quadrant	Value		Unit
$I_G$	$V_D = 0 \text{ V}$ $R_L = 1 \Omega$	I - II - III	10	5	A
$V_G$		I - II - III	10	1	V
$V_G$	$V_D = 0 \text{ V}$ $T_{jS} = 25^\circ\text{C}$ $R_L = 1 \Omega$	I - II - III	10	0	V
$I_L$	$I_G = 2 \text{ A}$	I - III	10	5	A
		II	10	0	A
$I_H$	$I_T = 0$	III	10	5	A
$dI/dt$	$V_D = 0 \text{ V}$ $T_{jS} = 25^\circ\text{C}$	III	10	0	V/μs
$t_{tr}$	$10 \text{ V}/\mu\text{s}$ $T_{jS} = 25^\circ\text{C}$	III	10	15	A
$t_{fb}$	$I_G = 0 \text{ A}$ $I_A = 0 \text{ A}$ $I_R = 0 \text{ A}$ $T_{jS} = 25^\circ\text{C}$	TP	10	3	μs
$t_{fb}$	10		2	μs	

## STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
$V_m$	$I_m = 0 \text{ A}$	$\tau_{pH} = 0 \text{ μs}$	10	V
$V_D$	0	0	0	V
$R_D$	0	0	0	mΩ
$I_A$	$V_D = 0 \text{ V}$ $V_R = 0 \text{ V}$	$T_{jS} = 25^\circ\text{C}$	10	μA
$I_R$		$T_{jS} = 25^\circ\text{C}$	10	A

## THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
$R_{ph}$	$\text{to } 25^\circ\text{C}$	0	°C/W
$R_{ph}$	$\text{to } 25^\circ\text{C}$	0	°C/W

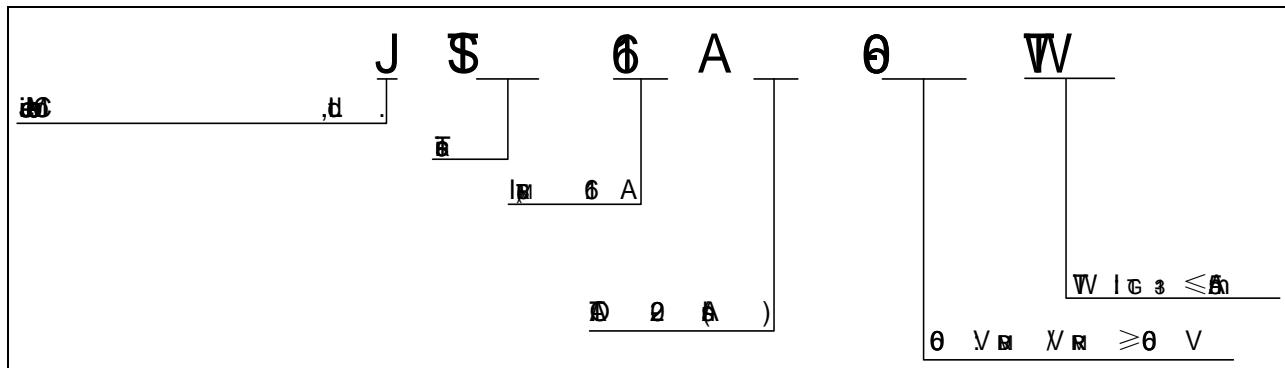
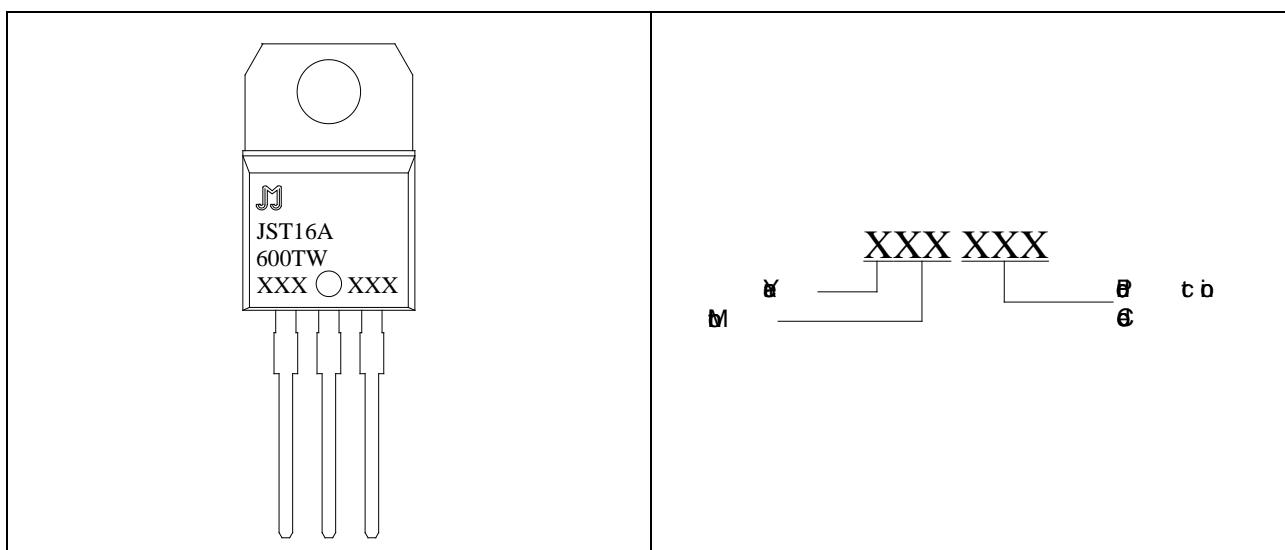
**ORDERING INFORMATION****MARKING**

FIG.1 ~~WIR~~

◎ ■

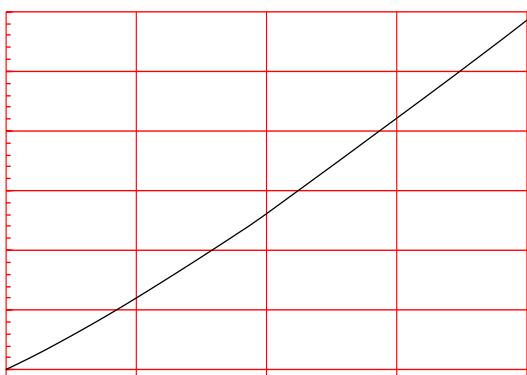
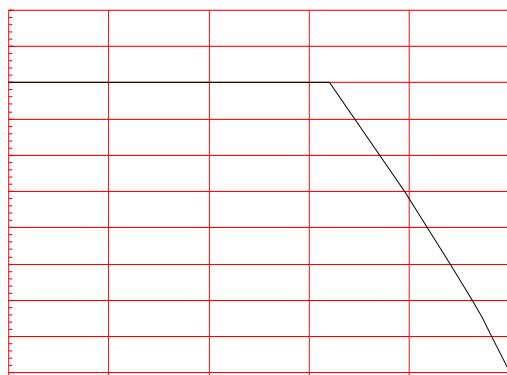


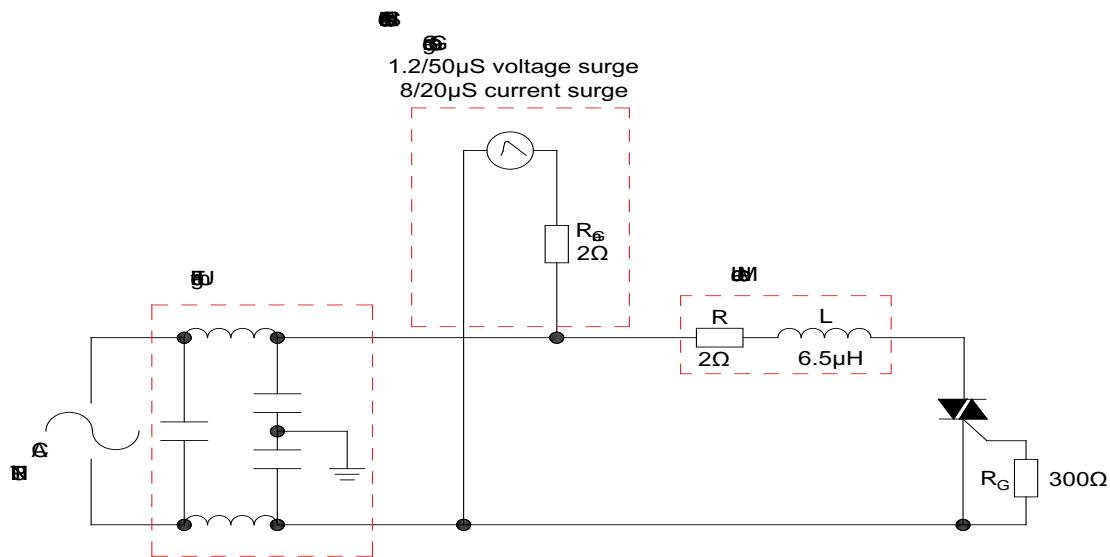
FIG.2: ~~WIR~~ -~~the~~

■



图号：S1001C

-0 51



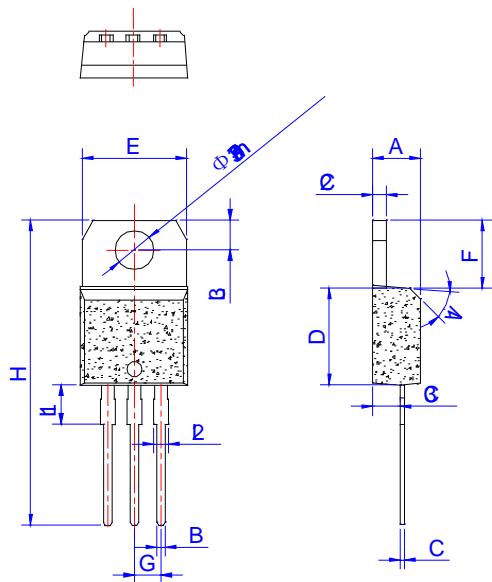
## SHAPING AND SOLDERING PARAMETERS

图号：S1001C -0 51 》 52

**ORDERING INFORMATION**

Order code	Voltage $V_{DRM}/V_{RRM}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode

## PACKAGE MECHANICAL DATA



R	B					
	M			Ia		
	M	P	M	M	P	M
A	0		0	0		0
B	0		0	0		0
C	0		0	0		0
D	2		2	0		0
E	0		2	0		0
F	0		6	2		0
G	0		0	0		0
H	0		0	0		3
I	0		0	0		0
J	4		0	0		0
K	0		0	0		0
V		8			5	

## DELIVERY MODE

