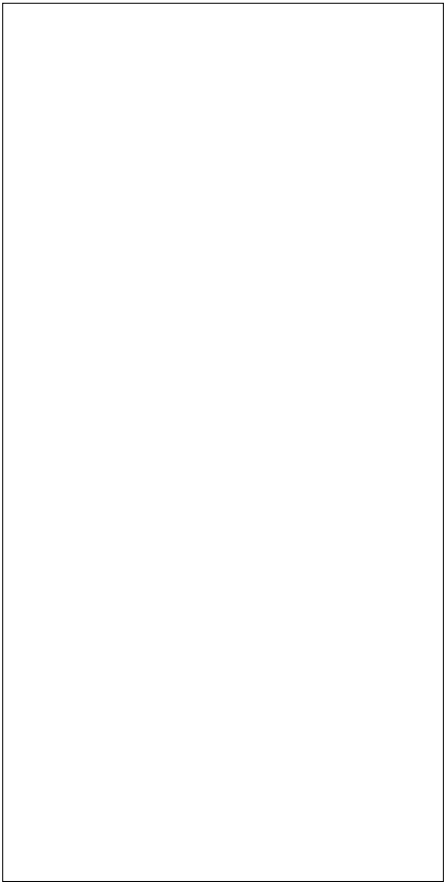




ACJT04F-1000CW 4A TRIAC

Rev.A.1.0

The ACJT04F-1000CW triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. The ACJT04F-1000CW embeds a TVS structure to absorb the inductive turn-off energy such as those described in the IEC 61000-4-5 standards. By using an external plastic package, ACJT04F-1000CW provides a rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F is RoHS compliant.



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Parameter	Symbol	Value	Unit
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Average gate power dissipation ( $T_j=125$ )	$P_{G(AV)}$	0.5	W
Peak gate power	$P_{GM}$	10	W
Peak pulse voltage ( $T_j=25$ ; non-repetitive,off-state;FIG.7)	$V_{pp}$	3.75	kV

(T<sub>j</sub>=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
$I_{GT}$	$V_D=12V R_L=33$	- -	MAX.	35	mA
$V_{GT}$		- -	MAX.	1	V
$V_{GD}$	$V_D=V_{DRM} T_j=125$ $R_L=3.3K$	- -	MIN.	0.2	V
$I_L$	$I_G=1.2I_{GT}$	-	MAX.	40	mA
				60	
$I_H$	$I_T=100mA$		MAX.	35	mA
dV/dt	$V_D=670V$ Gate Open $T_j=125$		MIN.	1600	V s
(dI/dt) <sub>c</sub>	(dV $T_j=125$ )		MIN.	10	A/ms
$t_{on}$	$I_G=40mA I_A=200mA I_R=20mA$ $T_j=25$		TYP.	5	s
$t_{off}$				70	
$V_{CL}$	$I_{CL}=0.1mA t_p=1ms$		MIN.	1050	V

Symbol	Parameter		Value(MAX.)	Unit
$V_{TM}$	$I_{TM}=5.6A t_p=380$ s	$T_j=25$	1.6	V
$V_{TO}$	Threshold voltage	$T_j=125$	0.9	V
$R_D$	Dynamic resistance	$T_j=125$	80	
$I_{DRM}$	$V_D=V_{DRM} V_R=V_{RRM}$	$T_j=25$	8	A
$I_{RRM}$		$T_j=125$	0.4	mA

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	3.5	/W
$R_{th(j-a)}$	junction to ambient (AC)	60	/W

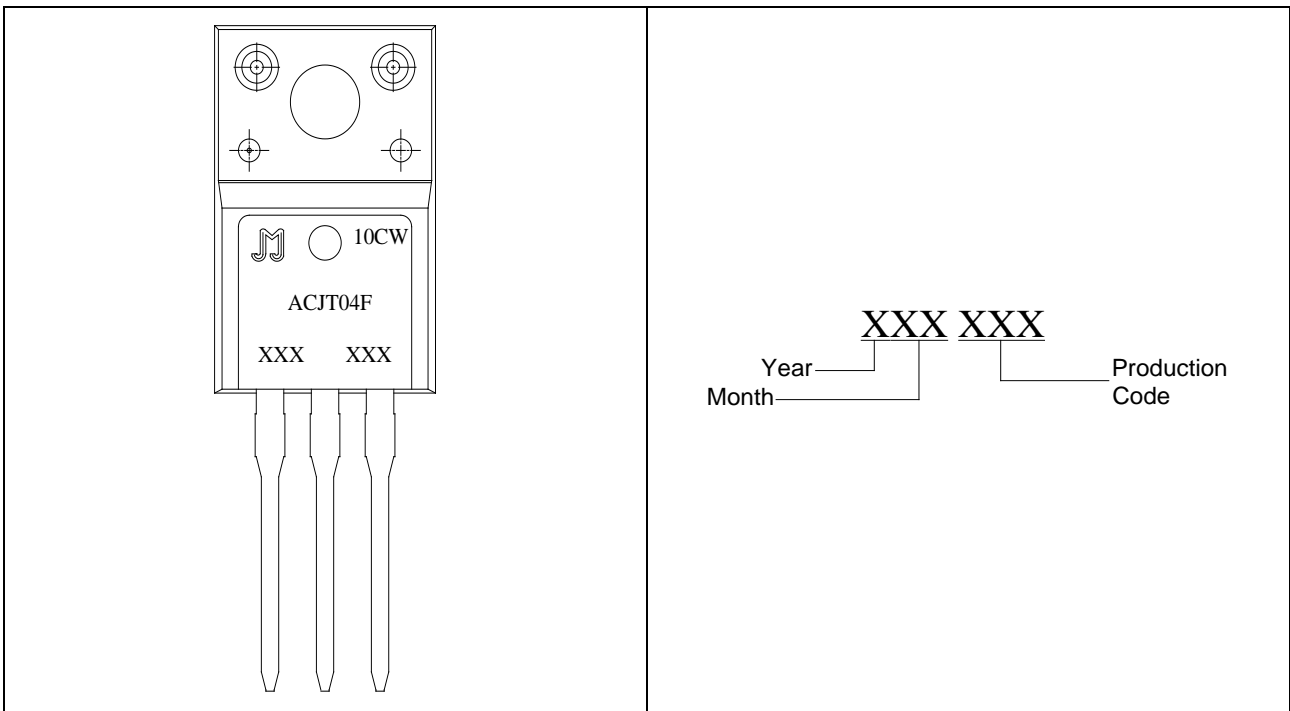
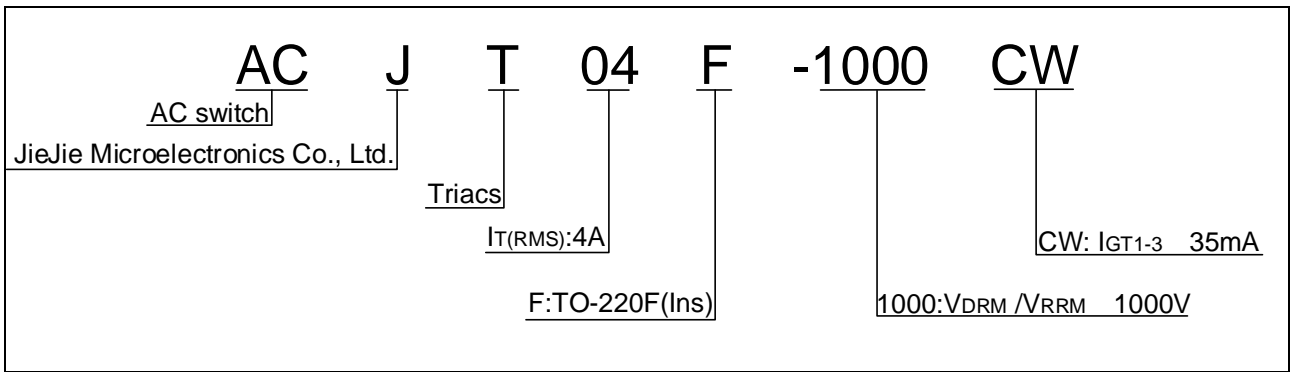
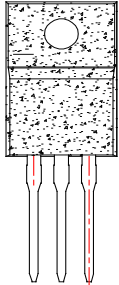
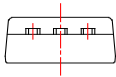


FIG.1 2 1 Tf 0che1D 0 >>BDC /TT0 1 Tf -0.0054F.761.7 ( )1M8.50 Tax







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