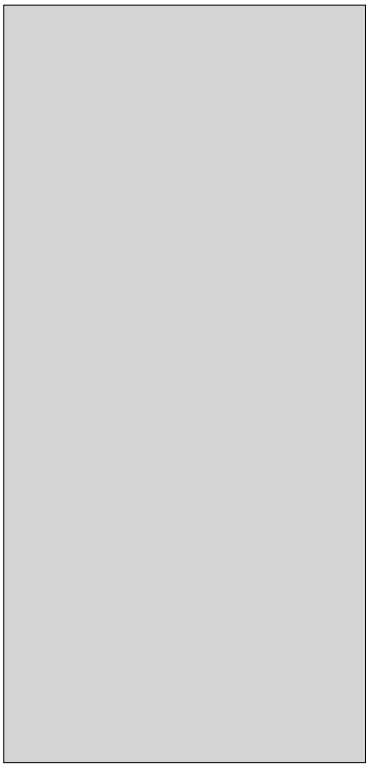
JCT816FH 16A SCR

Rev.A.1.1

With high ability to withstand the shock loading of large current, JCT816FH of silicon controlled rectifiers provides high dV/dt rate with strong resistance to electromagnetic interference. It is especially recommended for use on solid state relay, motorcycle, power charger, T-tools etc. From all three terminals to external heatsink, JCT816FH provides a rated insulation voltage of 2000 V_{RMS}, complying with UL standards (File ref: E252906). Package TO-220F is RoHS compliant.



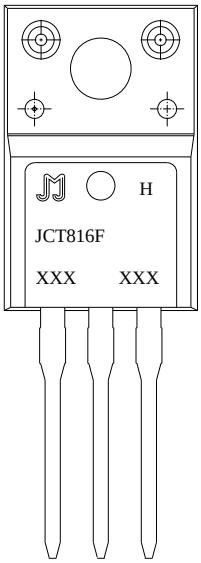
Symbol	Value	Unit
$I_{T\%}$ ض	16	A
V_D /V_{RRM}	800	V
I_{GT}	≤15	mA

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-150	
Repetitive peak off-state voltage (T_j=25)	V_{DRM}	800	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	800	V
Average on-state current ($T_C \leq$ 89)	I N,	10	A
RMS on-state current ($T_C \leq$ 89)	I		
non repetitive surge peak on-state current %=10ms, T_j=25)	I	150	A
non repetitive surge peak on-state current %=8.3ms, T_j=25)		165	
I t value for fusing (t_p=10ms , T_j I	t	113	A s
Critical rate of rise of on-state current % =2 × I_{GT}, f=100Hz , T_j=150)	dI/dt	150	A/μs
Peak gate current %=20μs , T_j=150)	I	5	A

Average gate power dissipation (T_j=150)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	20	W
Peak pulse voltage			

J CT 8 16 F H

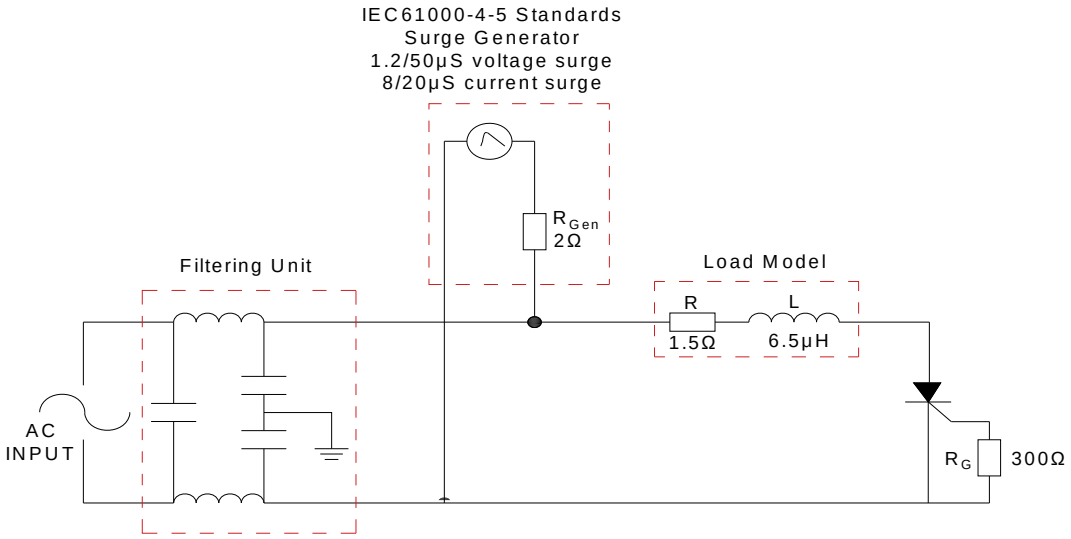
- J: JieJie Microelectronics Co., Ltd.
- CT: SCRs
- 8: V_{DRM} /V_{RRM} ≥ 800V
- 16: $I_{T(RMS)}$:16A
- F: F:TO-220F(Ins)
- H: High junction temperature



XXX XXX

- XXX: Year / Month
- XXX: Production Code

FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards.



Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
JCT816FH	800	15	TO-220F(Ins)	50	Tube

Document Revision History

Date	Revision	Changes
Jun.15, 2023	A.1.0	Last update
Oct.17, 2021	1	='

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