



JCT16130IS 130A SCR

Rev.A.1.2

DESCRIPTION:

This device is a 130A SCR, which is a silicon controlled rectifier. It is used for power control in various applications. The device is available in a TO-18 package. The maximum forward current is 130A, and the maximum forward voltage is 100V. The device is characterized by its high efficiency and long life. It is suitable for use in industrial and consumer electronics applications.

MAIN FEATURES

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I_{GS}	$V_{GS} = 5V, T_j = 25^\circ C$	I_{GS}	5	A
P_{tot}	$T_j = 25^\circ C$	P_{tot}	1	W
P_{tot}		P_{tot}	2	W
V_{GS}	$T_j = 25^\circ C, I_{GS} = 5A$	V_{GS}	13	V

ELECTRICAL CHARACTERISTICS

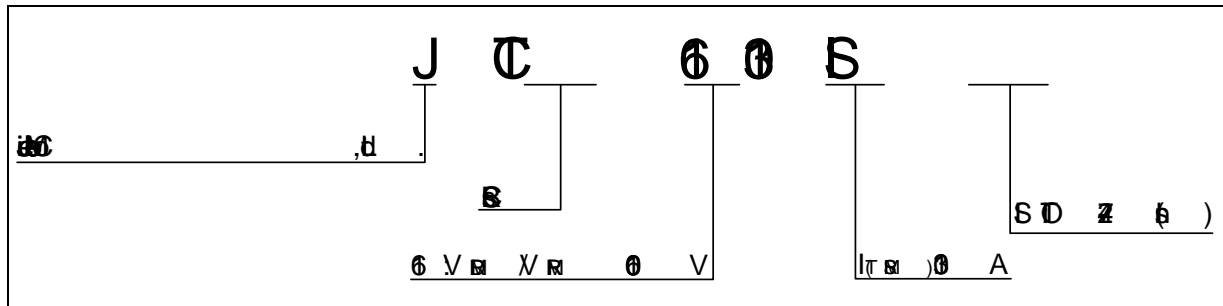
Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
I_G	$V_{DS} = 10V, L = 10\mu H$	0	-	0	A
V_G		-	-	1.3	V
V_G	$V_{DS} = 10V, T_j = 25^\circ C, R_L = 1k\Omega$	0	-	-	V
I_L	$I_G = 2I_G$	-	-	0	A
I_H	$I_T = A$	-	-	0	A
$t_{d(on)}$	$V_{DS} = 10V, I_G = 5A, T_j = 25^\circ C$	20	-	-	V s
t_{off}	$I_G = 0A, I_A = 1A, I_{R0} = 0A, T_j = 25^\circ C$	-	7	-	s
t_b		-	0	-	

STATIC CHARACTERISTICS

Symbol	Parameter	Value(MAX.)	Unit
V_{th}	$I_{th} = 1A, T_j = 25^\circ C$	1.6	V
V_D	$T_j = 25^\circ C$	0	V
R_D	$T_j = 25^\circ C$	4.5	
I_{th}	$V_{DS} = 10V, V_{RS} = 10mV$	0	A
I_{th}		$T_j = 25^\circ C$	2

$t_{d(on)}$ EMer /P w 1.5 O Td4.8

ORDERING INFORMATION



MARKING

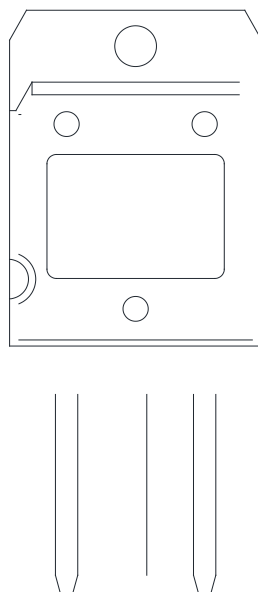








FIG.1: 
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FIG.2:  -


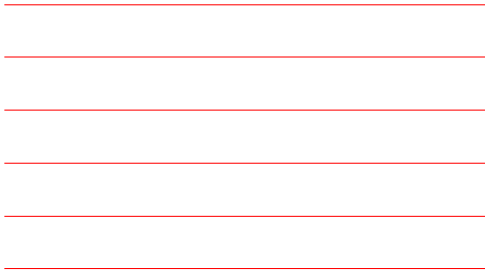



FIG.7 

ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
JCT16130IS	1600	20-80	ITO-247(Ins)	25	Tube

Document Revision History

Rev	Rev	Rev
A.3, 0.3	A.10	甲
甲	A.1	Rev R _{th} & V _m
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PACKAGE MECHANICAL DATA



