

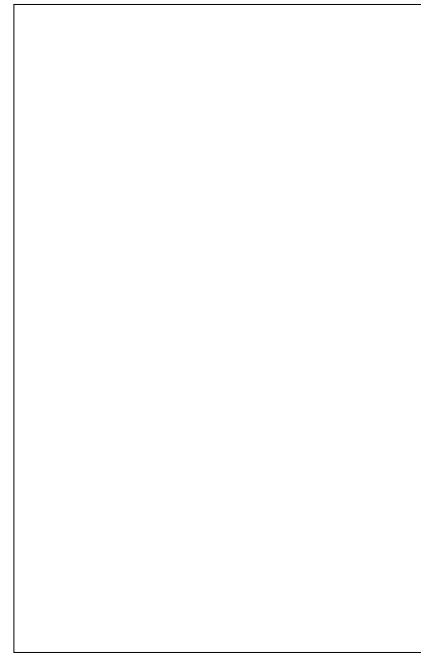


## JCT640EH 40A SCR

Rev.A.1.1

### DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT640EH SCR 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. Package TO-263 is RoHS compliant.



### MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	40	A
$V_{DRM}/V_{RRM}$	600	V
$I_{GT}$	35	mA

### ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	$T_{stg}$	-40-150	

Peak gate power	$P_{GM}$	20	W
Peak pulse voltage ( $T_j=25$ ; non-repetitive,off-state;FIG.8)	$V_{pp}$	0.5	kV

**ELECTRICAL CHARACTERISTICS** ( $T_j=25$  unless otherwise specified)

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
$I_{GT}$	$V_D=12V R_L=33$	-	-	35	mA
$V_{GT}$		-	-	1	V
$V_{GD}$	$V_D=V_{DRM} T_j=150 R_L=3.3k$	0.2	-	-	V
$I_L$	$I_G=1.2I_{GT}$	-	-	80	mA
$I_H$	$I_T=500mA$	-	-	70	mA
dV/dt	$V_D=400V$ Gate Open $T_j=125$	1 00	-	-	V/ $\mu s$
	$V_D=400V$ Gate Open $T_j=150$	00	-	-	
$t_{on}$	$I_G=40mA I_A=400mA I_R=40mA$ $T_j=25$	-	2	-	$\mu s$
$t_{off}$		-	60	-	

**STATIC CHARACTERISTICS**

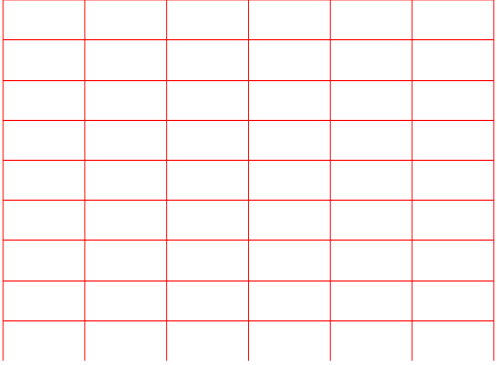
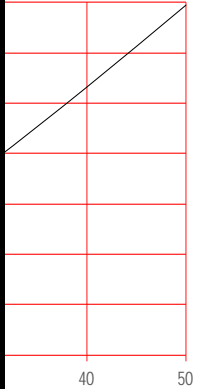
Symbol	Parameter	Value(MAX.)	Unit
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**ORDERING INFORMATION**

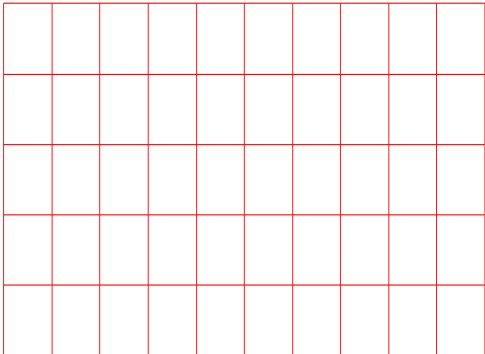
J    CT    6    40    E    H    -/  
JieJie Microelectronics Co., Ltd.    SCRs

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**FIG.2:** RMS on-state current versus case temperature



**FIG.7:** Relative variations of gate trigger current, holding current and latching current versus junction temperature





**ORDERING INFORMATION**

Order code	Voltage $V_{DRM}/V_{RRM}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
JCT640EH	600	35	TO-263	50	Tube
JCT640EH-TR				800	Tape & Reel

**Document Revision History**

Date	Revision	Changes
Jun.13, 2023	A.1.0	Last update
Oct.16, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA



DELIVERY MODE

