



Ultra-Fast Recovery Diodes 20A FRED



Features

" \$GRSW)5(' FKLS
" /RZ IRUZDUG 9ROWDJH GURS
")DVW UHYHUVH UHFRYHU\ WLPH
" +LJK IUHTXHQF\ RSHUDWLRQ
" +LJK SXULW\ KLJK WHPSHUDWXUH HSR[\ H
H QKDQFHG PHFKDQDQDOPRWWHQWUHVLVWD
" *XDUG ULQJ IRU HQDQFHG UHGHGWHUP U

Typical Applications

7\SLFDO DSSOLFDWLRQV DUH LQ VZLWFKLQJ
IUHHZKH HOLQJ GLRGHV DQG UHYHUVH EDW

Mechanical Data

" **Package** 72 \$ %
0ROGLQJ FRPSRQHQG PHHWPDELOLW\
UDWLQJ 5R+6 FRPSOLDQW
" **Terminals** 7LQ SODWHG OHG V VROGHUDEOH S
DQG -(6' %
" **Polarity** \$ V PDUNHG "

Maximum Ratings 7M 8QOHVV RWKHU\LVH VSHFLILHG

PARAMETER	SYMBOL	UNIT	MURS2030CTS
'HYLFH PDUNLQJ FRGH			0856 &76
5HSHWLWLYH 3HDN 5HYHUVH 9ROWDJH	I_{RM}	A	20
\$YHUDJH 5HFWLILHG 2XWSXW &XUUHQW # +] VLQH ZDYH 5 ORDG 7F)	I_{AV}	A	10
6XUJH 1RQ UHSHWLWLYH)RUZDUG &XUUHQW # +] KDOI VLQH ZDYH - F\FOH 7D)60	I_{SM}	A	30
&XUUHQW 6TXDUHG 7LPH #-EV " W" P, W 7M	I_{FSM}	A	30
6WRUDJH 7HPSHUDWXUH	T_{vj}	°C	175
			0 V, 800 pA P Op 0
7\SLFDO -XQFWLRQ FDSDFLWDQFH # 9M 0+]	f_{rr}	Hz	100



MURS2030CTS

Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
,QVWDQWDQHRXV IRUZDUG YROWDJH GURS SHU GLRGH			0 \$ # M -			
			0 \$ # 7 M -			
'& UHYHUVH FXUUHQW DW UDWHG '& EORFNLQJ YROWDJH SHU GLRGH	50		950 9550 7 M -			
	50		950 9550 7 M -			
5HYHUVH 5HFRYHU\ 7LPH	55	Q V	0 \$ 50 \$ 5 \$ 7 M -			
			7 M -			
			7 M -			
3HDN UHFRYHU\ FXUUHQW	550	\$	7 M -	0 \$ GL GW 950 9	\$ X V	
			7 M -			
5HYHUVH UHFRYHU\ FKDUJH		Q &	7 M -	400		
			7 M -			

Thermal Characteristics 7M 8QOHVV RWKHU\LVH VSHFLILHG

PARAMETER		SYMBOL	UNIT	MURS2030CTS
7KHUPDO 5HVLWDQFH	%HWZHHQ MXQFWLRQ DQG FDVH - :	Q DQG FDVH - :		5
	%HWZHHQ MXQFWLRQ DQG \$LU - :	Q DQG \$LU - :		5

Ordering Information ([DPSOH

PREFERED P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)
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MURS2030CTS

Characteristics 7 \ S L F D O

FIG1:Io

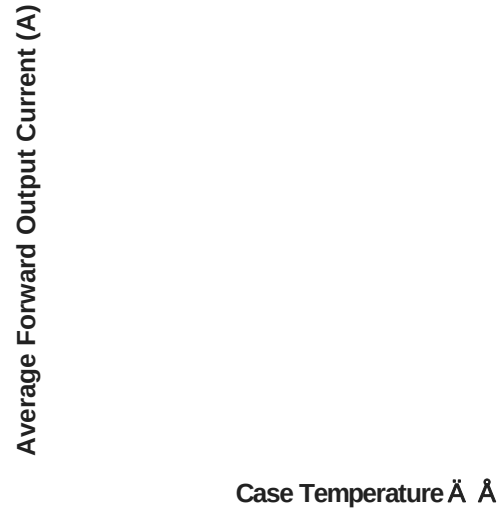


FIG2:Surge Forward Current Capability

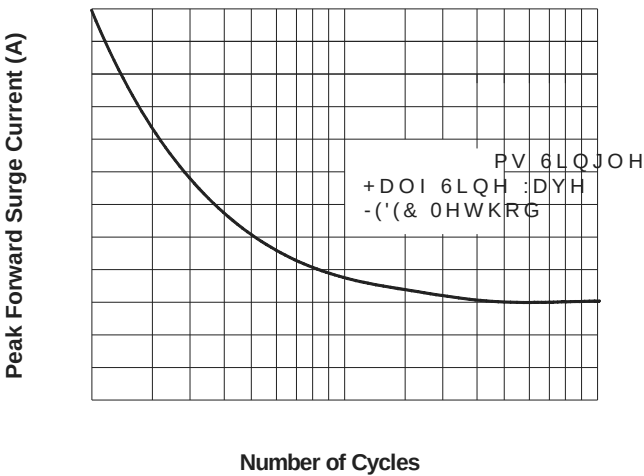
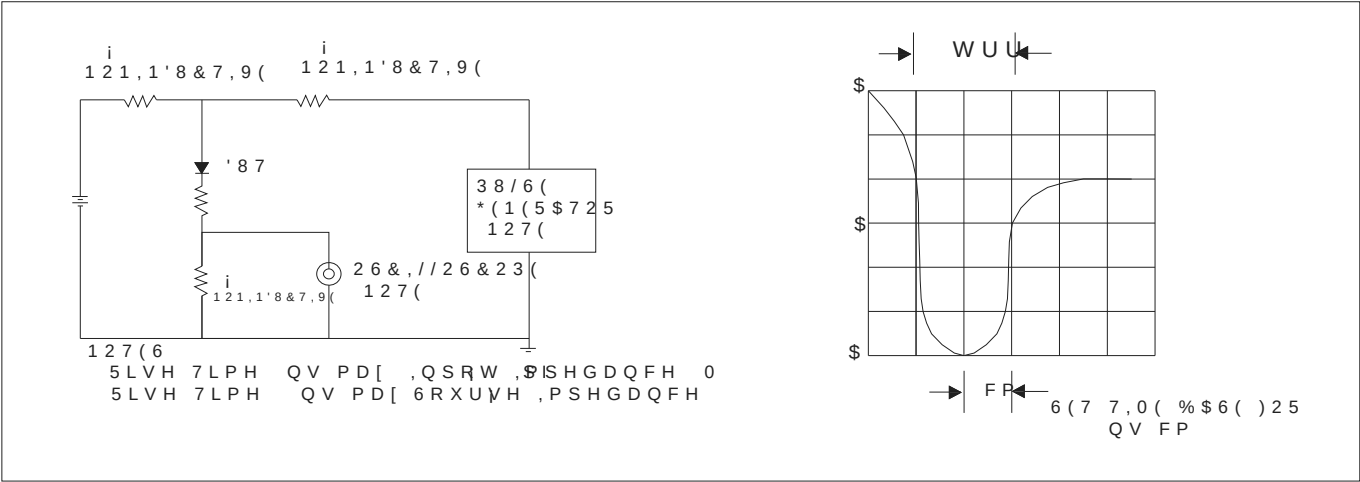
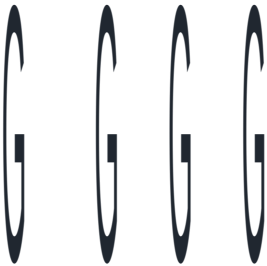
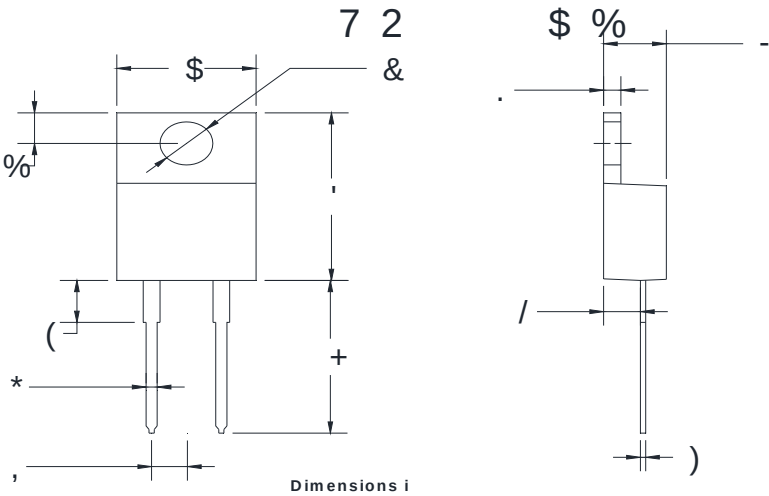


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





Outline Dimensions





MURS2030CTS

Disclaimer

7KH LQIRUPDWLRQ VSHFWXHQWQW LQ WKULUDHQHJLRQFH KDRQQOZH F(QHFWURQ &LF /VHG UHV
ULJKW WR PDNLHWKRXQJ QHFWLSHFIRIWLQVSLRQG RFWV GLVSPDURYGHKWHUOLQEWG LVLJQQF
RU RWKHUZZLVH

7KH SURGXFWQLVWGHV IJHQH WR EH HXWHEWZLRQK RUGXQSRHQW RU GHYLFHWKDQGQ
HTXLSPHQW RU GHYLFHV ZKLFK UHTXLWKHKEDIO IZQVWLZRXDHEOQDDEHQWOK DFKQDOLIH
PHGLFDO LQVWUXHQMSUWHDQWLRQHUTXLSDFH QXFKHQ U UHDFWRHU FRQWURROOHV DQ
GHYLFHV <DQJMLHVRV DQKQ H DQVXRLOV QRRWHVSRQVLEWVROVLIQJGIDRDPJMMFK LP
RI VDOH

7KLV SXEOLFDWLRQ SXVSHUW DQDVLQURUPDWSLROHSGHYLRXDGGLWLRQDO LQWRUPDWLR
KWV [VZZ](#) [\DQJMLH](#) RFRFRQVXOW \RXU QHDUHVW <DQJMLHVRVDFHOHV RIILFH IRU IXUW