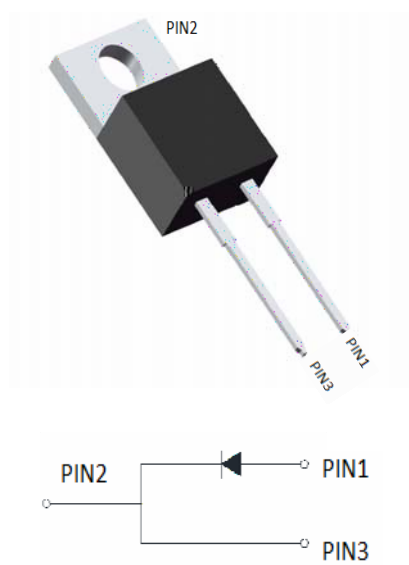




## Ultra-Fast Recovery Diodes 8A FRED



### Features

\$GRSW )5(' FKLS  
/RZ IRUZDUG 9ROWDJH GURS  
)DVW UHYHUVH UHFRYHU\ WLP  
+LJK IUHTXHQF\ RSHUDWLRQ  
+LJK SXULW\ KLJK WHPSHUDWXUH HSR[\ H  
HOKDQFHG PHFKDQDQDOPRWWHQWUHV  
\*XDUG ULQJ IRU HQDQFBQGURJH

### Typical Applications

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

### Mechanical Data

**Package** 72 \$&  
0ROGLQJ FRPSRQHQW PHHWDVPPDELOLW\  
UDWLQJ 5R+6 FRPSOLDQW  
**Terminals** 7LQ SODWHG OHDGV VROGHUDEOH S  
DQG -(6' %  
**Polarity** \$V PDUNHG

### Maximum Ratings

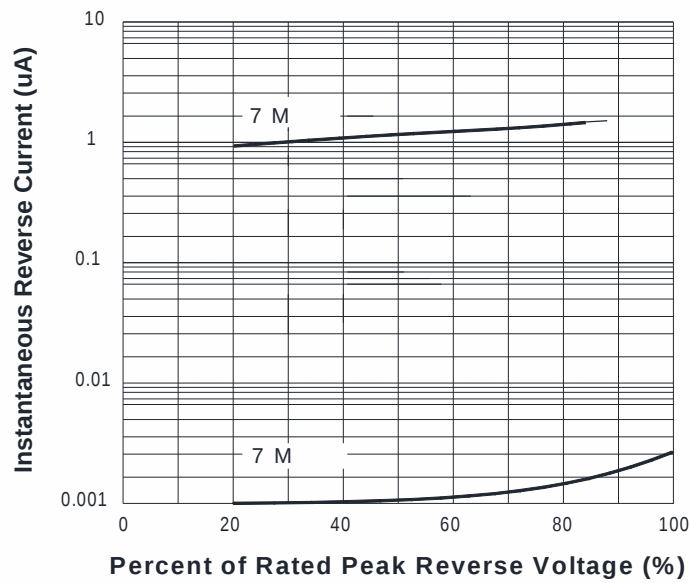
| PARAMETER                                                                     | SYMBOL    | UNIT | MUR8120   |
|-------------------------------------------------------------------------------|-----------|------|-----------|
| 'HYLFH PDUNLQJ FRGH                                                           |           |      | 085       |
| 5HSHWLWLYH 3HDN 5HYHUVH 9ROWDJH                                               | $P_{RM}$  | W    | 9         |
| \$YHUDJH 5HFWLILHG 2XWSXW &XUHQW<br># +] VLQH ZDYH 5 ORDG 7F ),* <sup>2</sup> | $P_{AV}$  | W    | \$        |
| 6XUJH 1RQ UHSHWLWLYH )RUZDUG &XUHQW<br># +] KDOI VLQH ZDYH FFOH 7M            | $P_{SM}$  | W    | \$        |
| &XUHQW 6TXDUHG 7LPH<br># PV W PV 7M                                           | $t_{on}$  | s    | \$ V      |
| 6WRUDJH 7HPSHUDWXUH                                                           | $T_{VWJ}$ | °C   | a         |
| -XQFWLRQ 7HPSHUDWXUH                                                          | $T_M$     | °C   | a         |
| -XQFWLRQ FDSDFLWDQFH #                                                        | $Q_{RM}$  | C    | 9 0 +M S) |

**MUR8120**

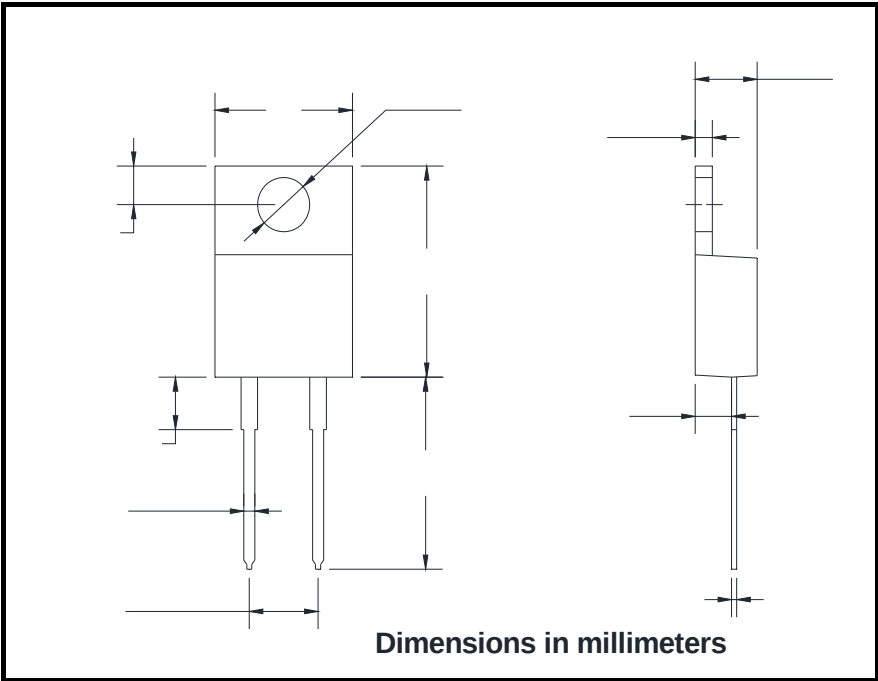


MUR8120

FIG.4: Instantaneous Reverse Characteristics



Outline Dimensions



| TO-220AC |       |     |
|----------|-------|-----|
| ' L P    | 0 L Q | 0 D |
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## MUR8120

### Disclaimer

7KH LQIRUPDWLRQ V GHVFHQWQW LQ WKH LQJHQHJLRQF KDRQJ OZHF (QHFORUR QLF /VHG UHV  
ULJKW WR PDNLHWKRXQJ QHJWV SH FRIW RYVSLRQG RFWV GLVSPDURYGHKUHWHLEWGRWV L JXQF  
RU RWKHUZZLVH

7KH SURGXFWQLVGHV IJHQHJL WR EH HXWHEGZLWQL RUGXQSRHQW RU GHYLFHWKDQGQ  
HTXLSPHQW RU GHYLFHV ZKLFK UHTXLW KHKE DIOXQVWOL RQXIDHOCDEHQWOK DQKQDOVLIH  
PHGLFDO LQVWUXHQMVWHDQWLRQHUTXLSPEH QXFKHQ U UHDFWRIU FRQWURROOHV DQ  
GHYLFHV <DQJMLHVRV DQKQ H DQVXRLOV QRRWHV SRQVLEWHV RQVLIQ JGIDRQJMMFK LP  
RI VDOH

7KLV SXEOLFDWLRQ SXVSHUW DQDVLQURUPDWSRQ LSGHYLURXVGLWLRQDO LQWRUPDWLR  
KWV [VZZ](#) [\DQJMLH](#) RFRQVXOW \RXU QHDUHVW <DQJMLHVRV DQVLEWHV RILFH IRU IXUW