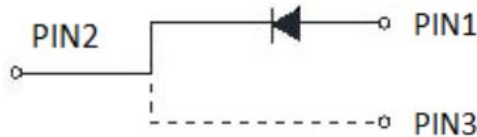




## Silicon Carbide Schottky Diode

|                  |     |
|------------------|-----|
| 9 <sub>550</sub> | 9   |
| 9A f &           | \$  |
| 4&               | Q & |



## Features

" 3RVLWLYH WHPSHUDWXUH FRHILFLHQW  
" 7HPSHUDWXUH LQGHSHQGHHQW VZLWFKLQJ  
" 0D[LPXP ZRUNLQJ WHPSHUDWXUH DW f &  
" 8QLSRODU GHYLFHVDQG JHHRYHU\ FXUUHQW  
" =HUR UHYHUVH UHFHYHU\ FXUUHQW  
" (VVHQWLDQO\ QR VZLWFKLQJ ORVVHV  
" 5HGXFWRQ RI KHDW VLQN UHTXLUPHQWV  
" +LJK IUHTXHQF\ RSHUDWRQ  
" 5HGXFWRQ RI (0,

## Typical Applications

7\SLFDO DSSOLFDWRQV DUH LQ SRZHU IDFW  
LQYHUWHU XQLQWXSXSWRORUSGHV  
LQYHUWHU HOHFWULF FDU DQG FKDUJHU

## Mechanical Data

" Package 72  
0ROGLQJ FRPSRXQG PHHWV 8/ 9 IODPP  
UDWLQJ 5R+6 FRPSOLDQW KDORJHQ IUHH  
" Terminals 7LQ SODWHG OHGCV  
" Polarity \$V PDUNHG

## Maximum Ratings 7&amp; 8QOHVV RWKHUZZLVH VSHFLILHG

| PARAMETER                                                                                              | SYMBOL           | UNIT   | VALUE   |
|--------------------------------------------------------------------------------------------------------|------------------|--------|---------|
| 'HYLFH PDUNLQJ FRGH                                                                                    |                  |        | ' % 4 * |
| 5HYHUVH YROWDJH UHSHWLWLYH SHDN<br># 7 <sub>M</sub> f &                                                | 9 <sub>550</sub> | 9      |         |
| 5HYHUVH YROWDJH 6XUJH 3HDN<br># 7 <sub>M</sub> f &                                                     | 9 <sub>560</sub> | 9      |         |
| 5HYHUVH YROWDJH ' &<br># 7 <sub>M</sub> f &                                                            | 9&               | 9      |         |
| &RQLQXRXV IRUZDUGFXUUHQW # 7                                                                           | \$               |        |         |
| &RQLQXRXV IRUZDUGFXUUHQW # 7 <sub>9</sub>                                                              |                  |        |         |
| &RQLQXRXV IRUZDUGFXUUHQW # 7                                                                           |                  |        |         |
| 1RQ UHSHWLWLYH SHDN IRUZDUG VXUJH FXUUHQW<br># 7 <sub>F</sub> f & WS PV +DOI 6LQH :DYH 9 <sub>60</sub> | \$               |        |         |
| 3RZHU 'LVVLSDWWRQ# 7                                                                                   | 3 <sub>727</sub> |        | :       |
| 3RZHU 'LVVLSDWWRQ# 7                                                                                   |                  |        |         |
| LW 9DOXH# 7F f & WS PV                                                                                 | GW               | 6\$e L |         |
| 2SHUDWLQJ MXQFWLRQ DQG 6WRUDJHWHPSHUDWXUH UDQJH 7WR                                                    |                  |        |         |



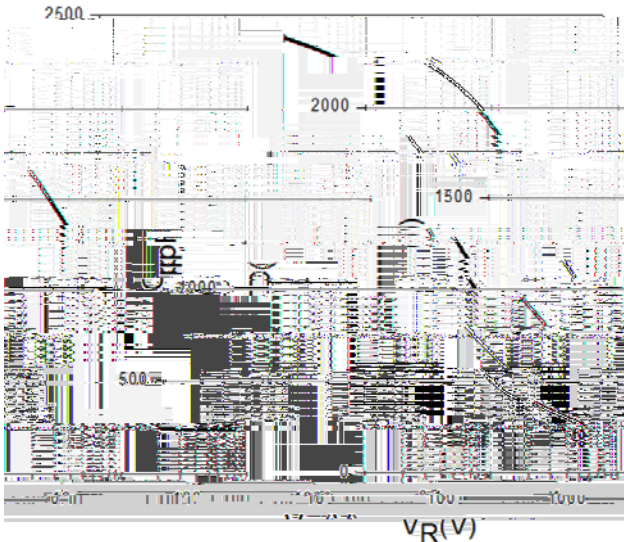
YJD106520BQG3

Electrical Characteristics

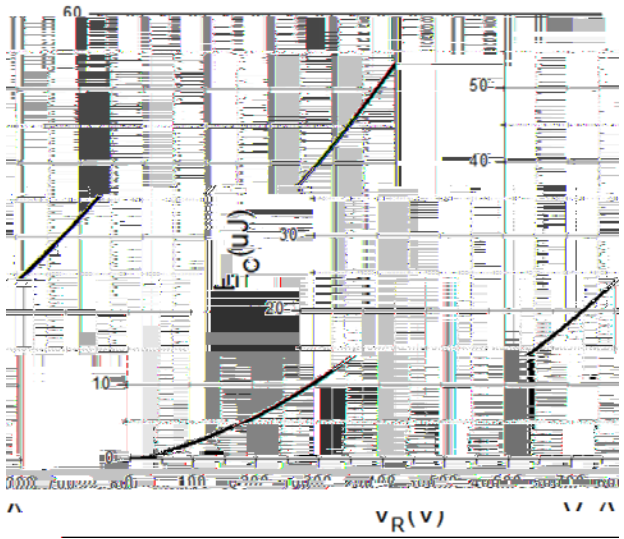
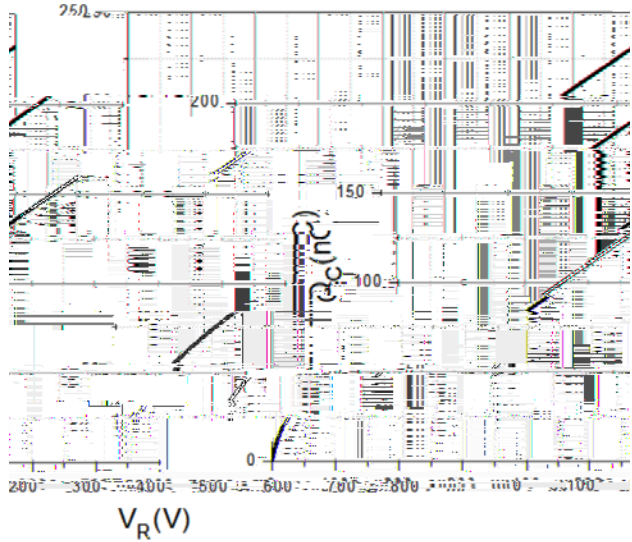
| PARAMTETER          | SYMBOL | UNIT | TEST CONDITIONS | Typ. | Max. |
|---------------------|--------|------|-----------------|------|------|
| RUZDUG YROWDJH GURS |        |      | 9 9             |      |      |
|                     |        |      | 9 9             |      |      |
|                     |        |      | 9 9             |      |      |



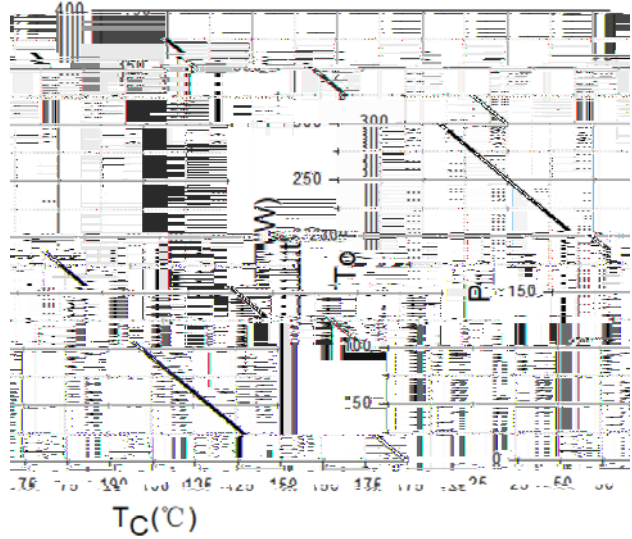
# YJD106520BQG3



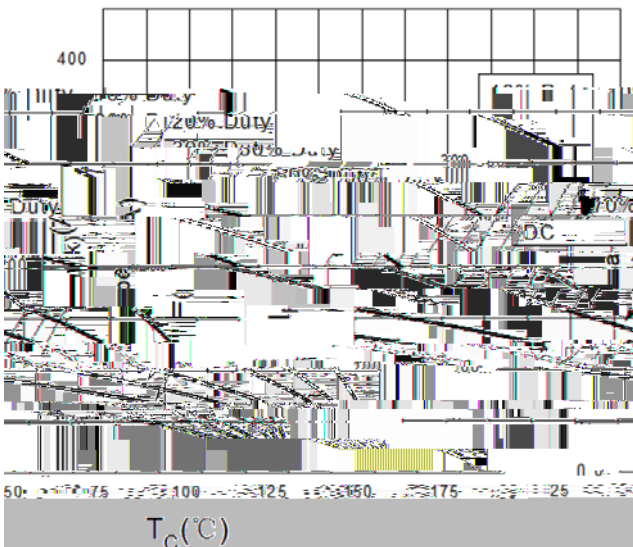
)LJXUH &DSDFLWDQFH9R0W5HYH XUH 7RWDQJLSDFLWDQFH &KDUJH YV



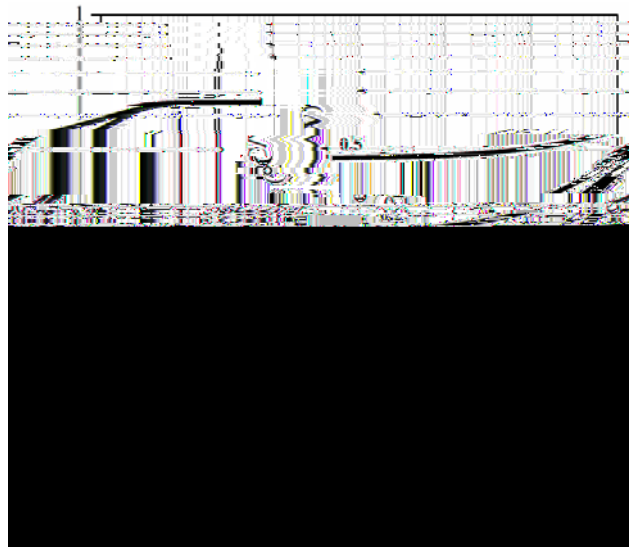
)LJXUH &DSDFLWDQFHJ6WRU



)LJXUH 3RZHU 'HUDW



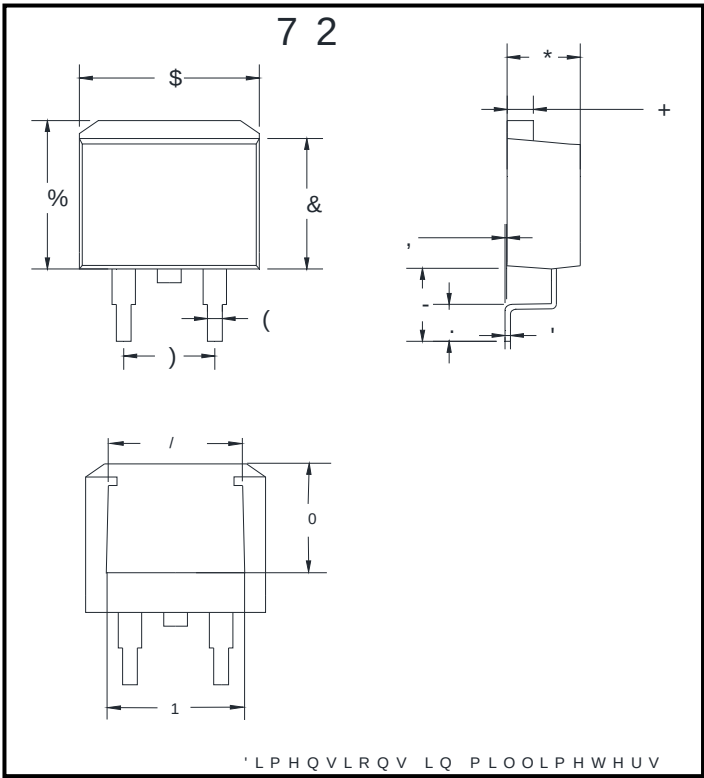
)LJXUH &XUHQW 'HUDWLQ



)LJXUH QW7UDQVDO ,PSHGDQFH

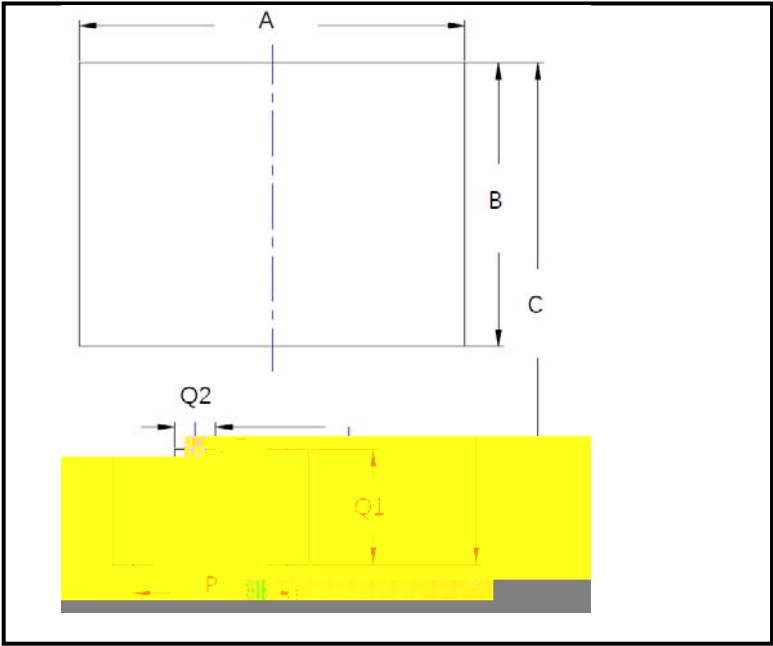


vOutline Dimensions



| TO-263 |       |     |
|--------|-------|-----|
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| 1      |       |     |

vSuggested Pad Layout



| Dim | Millimeters |
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| &   |             |
| 3   |             |
| 4   |             |
| 4   |             |



YJD106520BQG3

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Disclaimer

7KH LQIRUPDWLRQ SQRHWKL V GRFXPHQW <DQJ]KRX <DQJMEH HOKHWORDL & R /VHG UHV  
ULJKW WR PDNH FKDQJHV ZLWKRXW QRWLF