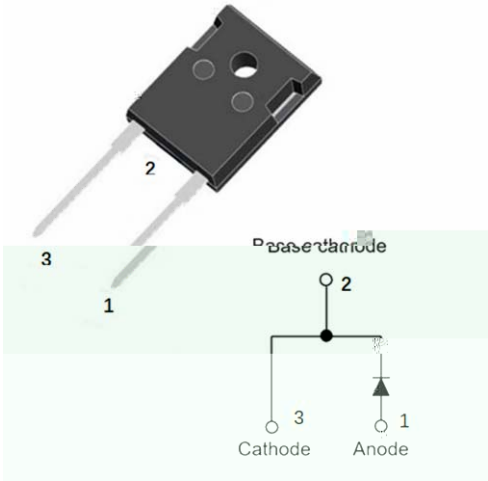




Silicon Carbide Schottky Diode

|                 |     |
|-----------------|-----|
| 9 <sub>50</sub> | 9   |
| ) f &           | \$  |
| 4&              | Q & |



Features

" 3RVLWLYH WHPSHUDWXUH FRHILFLHQW  
" 7HPSHUDWXUH LQGSHQGHHQW VZLWFKLQJ  
" 0D[LPXP ZRUNLQJ WHPSHUDWXUH DW f &  
" 8QLSRODU GHYLFH VHDQG JHURRYHU\ FXUUHQW  
" =HUR IRUFDUHJVRXUUHQW  
" (VVHQWLDQ\ QR VZLWFKLQJ ORVVHV  
" 5HGXFWRQ RI KHDW VLQN UHTXLUPHQWV  
" +LJK IUHTXHQF\ RSHUDWRQ  
" 5HGXFWRQ RI (0,

Typical Applications

7\SLFDO DSSOLFDWRQV DUH LQ SRZHU IDFW  
LQYHUWHU XQLQWXSXSWRORUSGHUHV S  
LQYHUWHU HOHFWULF FDU DQ — 7DÀVTCWDG™,I  
# 7

|                                                                                |                  |   |    |
|--------------------------------------------------------------------------------|------------------|---|----|
| M f &                                                                          | 9 <sub>50</sub>  | 9 |    |
| 5HYHUVH YROWDJH ' &<br># 7 <sub>M</sub> f &                                    | 9&               | 9 |    |
| &RQLQXRXV IRUZDUGFXUUHQW                                                       | # 7              |   |    |
| &RQLQXRXV IRUZDUGf&XUUHQW                                                      | # 7 <sub>)</sub> |   | \$ |
| &RQLQXRXV IRUZDUGf&XUUHQW                                                      | # 7              |   |    |
| 1RQ UHSHWLWLYH SHDN IRUZDUG VXUJH FXUUHQW<br># 7& f & WS PV +DOI 6LQH :DYH )60 |                  |   | \$ |
| 3RZHU 'LVVLS&DWf&Q# 7                                                          |                  |   |    |
| 3RZHU 'LVVLS&DWf&Q# 7                                                          | 3 <sub>727</sub> |   |    |

LW 9DOX&H#f & WS P@0x0 ó&A\$" H ò4\$ ID,2.ò4r ID™,€ i(G IDy~#"i(Q•\$"5FH ó d IDy~#"i2 !\$"SC\$€ iVTAS"G™,2.òeD IDy~H û 4 i 0À 0 CO



YJD117010NYG5

Electrical Characteristics

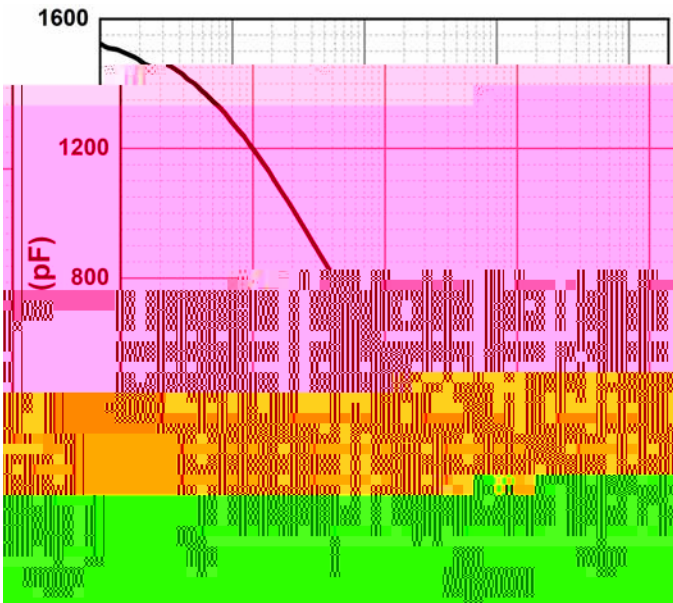
| PARAMETER               | SYMBOL | UNIT | TEST CONDITIONS          | Min. | Typ. | Max. |
|-------------------------|--------|------|--------------------------|------|------|------|
| 5HYHUVH YROWDJH         | '& ' & | 9 9  | 5 P \$ M7 f &            |      |      |      |
| )RUZDUG YROWDJH         | )      | 9    | ) \$ M7 f &              |      |      |      |
|                         |        |      | ) \$ M7 f &              |      |      |      |
| 5HYHUVH FXUUHQW         | 5      | ,    | 95 9 M7 f &              |      |      |      |
|                         |        |      | 95 9 M7 f &              |      |      |      |
| 7RWDO FDSDFLWLYH FKDUJH |        |      | 95 9 M7 f &<br>4 & 9 G 9 |      |      |      |

7RWDO FDSDFLWDQFH

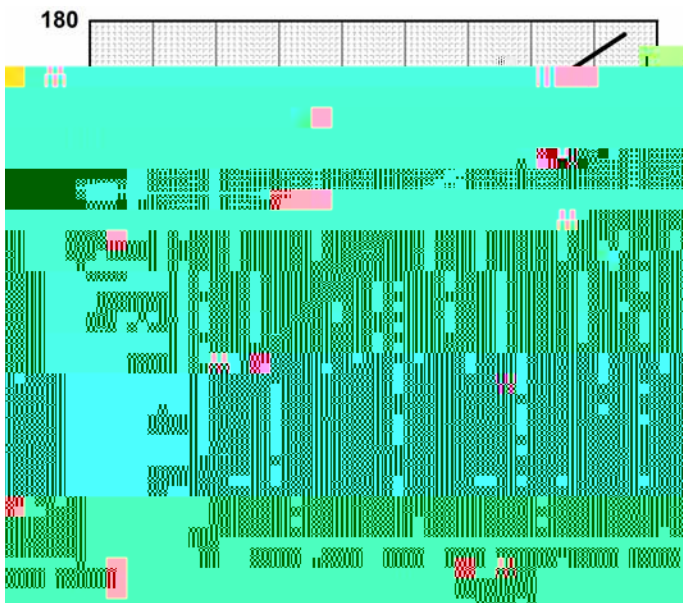
& S)



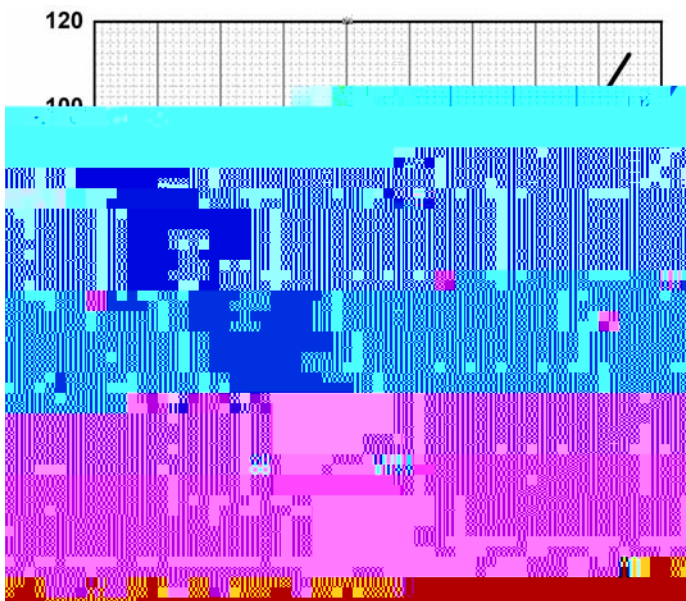
YJD117010NYG5



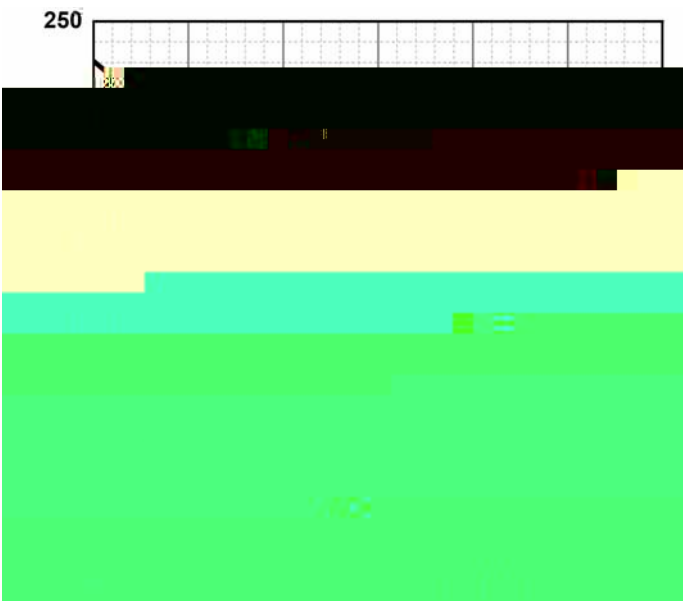
)LJXUH &DSDFLWDQFH9R0W5HY



)LJXUH 7RWDO &DSDFLWDQFH &KDUJ



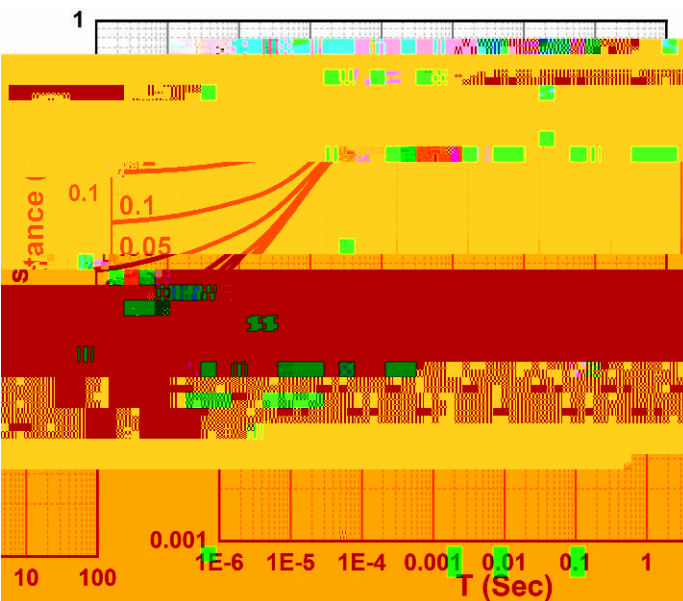
)LJXUH &DSDFLWDQFH 6WRUHG (QHUJ\



)LJXUH 3RZHU 'HUD



)LJXUH &XUUHQW 'HUDWLQ



)LJXUH 7UDQVLHQW 7KHUP



Outline Dimensions

| TO-247AC |       |       |
|----------|-------|-------|
| ' L P    | 0 L Q | 0 D [ |



YJD117010NYG5

### Disclaimer

7KH LQIRUPDWLRQ V GHVFHQWQV LQ WKULUDHQHJKRXFHDPHQDZHF(KQHFORURQLF /WHG UHV  
ULJKW WR PDNLHWKRXQHQHVLVSHFIRIWLQVSLRQG RFWV GLVSPDARIYGHKWHWOLDEWOGHVLJQQ  
RU RWKHUZZLVH

7KH SURGXFWQLVWGHV/KJHGL WR EH HXVHHGWZLRQK RUGXQSDHQW RU GHYLFHWKDQGQ  
HTXLSPHQW RU GHYLFHV ZKLFK UHTXLWKKHE DIOZQVWLZRXDIBOQDEHQHWO KDPKQDOVLIH  
PHGLFDO LQVWUXEHSPRUWHDQWL RQHUTXLSPEH QDFKHQ U UHDFWRH DFRQWUURDQHVV DQ  
GHYLFHV <DQJMLHLVRV DQHQH DQVXRLOVQARRWHO SREQVLEWHVROVLIQJGIDRPPJMH K LP  
RI VDOH

7KLV SXEOLFDWLRE SXVSHUWIDGLOVLQURQPDVLSRQLSGHYRLRXDGGWLWRQDO LQWRUPDWLR  
KWVZ [Z](#) [DQJMLH](#) RFRPRQVXOW \RXU QHDUHVW <DQJMLHVIDQVDOHV RIILFH IRU IXUW