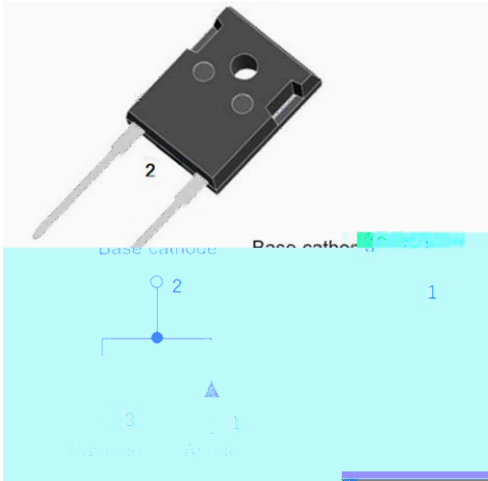




Silicon Carbide Schottky Diode

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Features

- " 3RVLWLYH WHPSHUDWXUH FRHILFLHQW
- " 7HPSHUDWXUH LQGHSHQGHQW VZLWFKLQJ
- " 0D[LPXP ZRUNLQJ WHPSHUDWXUH DW f &
- " 8QLSRODU GHYLFH\YHDQG JHURRYHU\ FXUUHQ
- " =HUR IRUFZDUH\VRXUUHQW
- " (VVHQWLDQO\ QR VZLWFKLQJ ORVVHV
- " 5HGXFWRQ RI KHDW VLQN UHTXLUHPHQWV
- " +LJK IUHTXHQF\ RSHUDWLRQ
- " 5HGXFWRQ RI (0,

Typical Applications

7\SLFDO DSSOLFDWLRQV DUH LQ SRZHU IDFW
LQYHUWHU XQLQWXSXSWEER\SGZHUHV S
LQYHUWHU HOHFWULF FDU DQ —'7DÀVTCWDG™,I
7

M f &	9 ₅₆₀	9	
5HYHUVH YROWDJH ' & # 7 _M f &	9.&	9	
&RQLQXRXV IRUZDUGFXUUHQW	# 7		
&RQLQXRXV IRUZDUGf&XUUHQW	# 7 ₁		\$
&RQLQXRXV IRUZDUGf&XUUHQW	# 7		
1RQ UHSHWLWLYH SHDN IRUZDUG VXUJH FXUUHQW # 7& f & WS PV +DOI 6LQH :DYH 160			\$
3RZHU 'LVVLS&DWf&Q# 7			
3RZHU 'LVVLS&DWf&Q# 7	3 ₇₂₇		

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



YJD117010NYG5

Electrical Characteristics

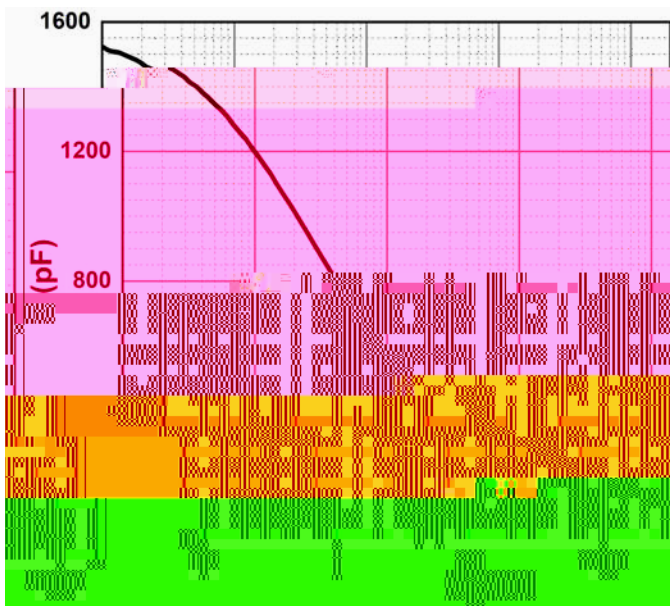
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min.	Typ.	Max.
5HYHUVH YROWDJH	'& ' &	9 9	5 P \$ M7 f &			
)RUZDUG YROWDJH	)	9	) \$ M7 f &			
			) \$ M7 f &			
5HYHUVH FXUUHQW	5	,	95 9 M7 f &			
			95 9 M7 f &			
7RWDO FDSDFLWLYH FKDUJH			95 9 M7 f & 4 & 9 G 9			

7RWDO FDSDFLWDQFH

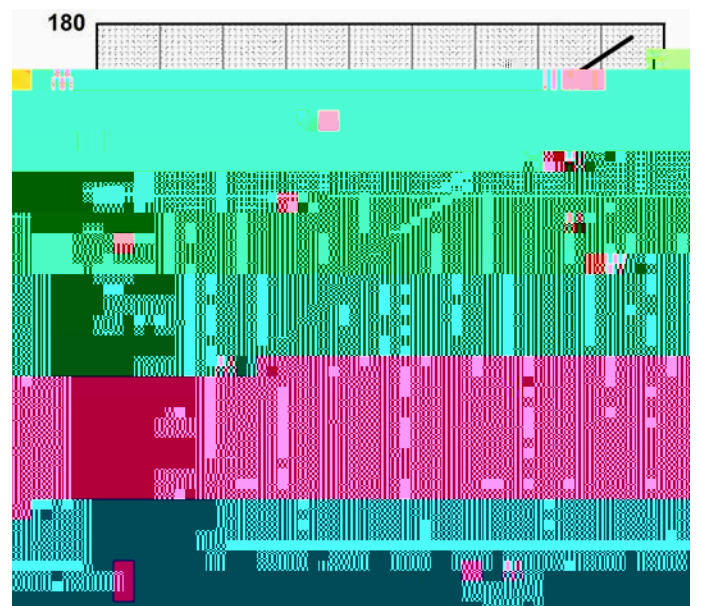
& S)



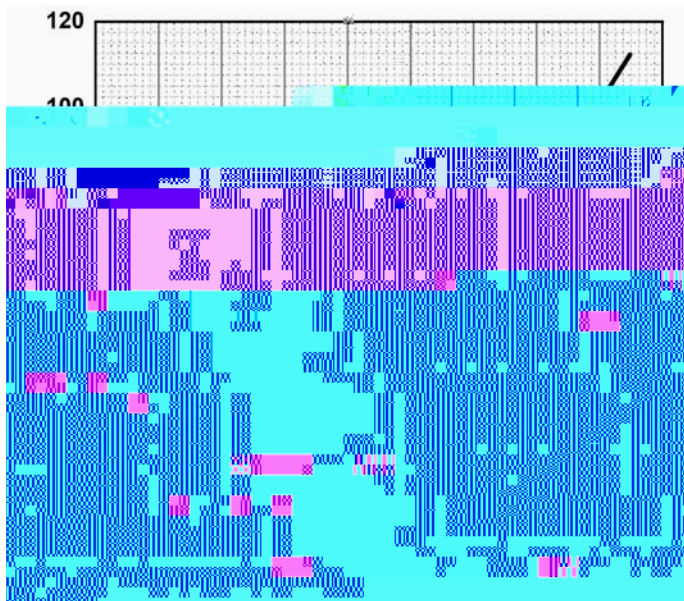
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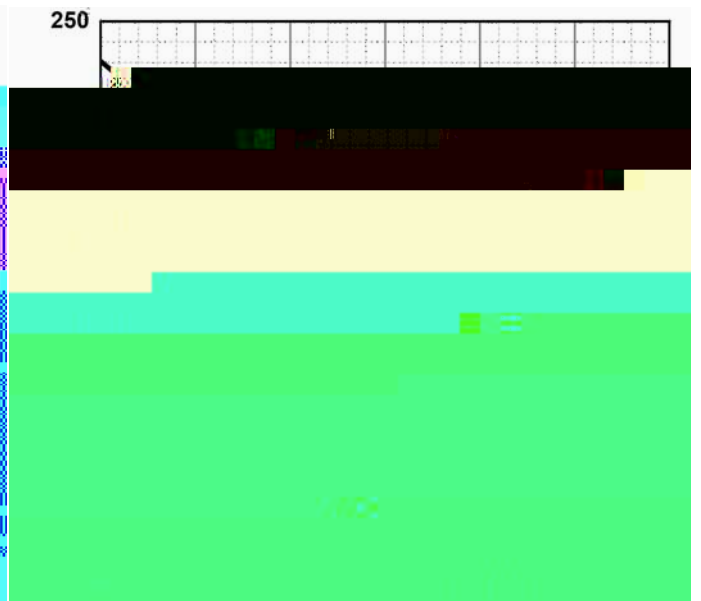
)LJXUH &DSDFLWDQFH9R0W5HY



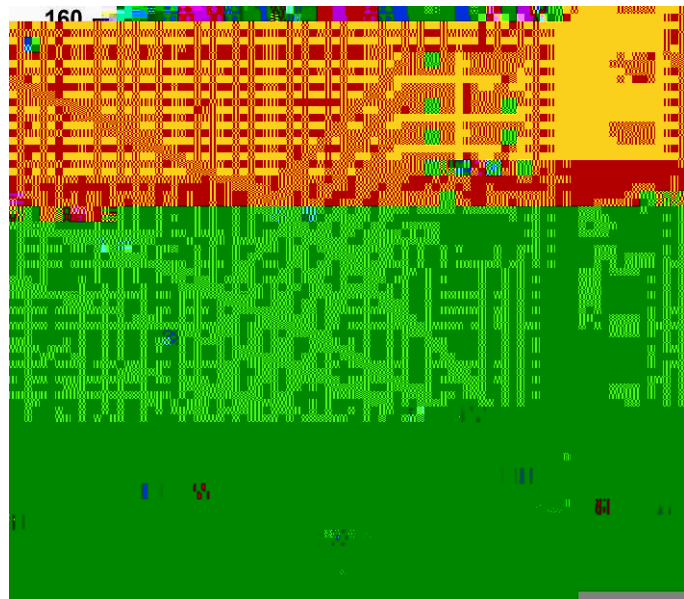
)LJXUH 7RWDO &DSDFLWDQFH &KDUJ



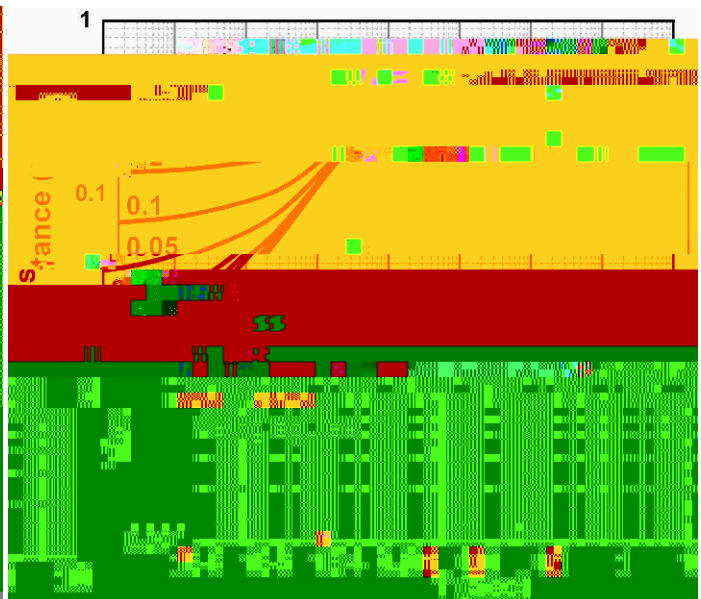
)LJXUH &DSDFLWDQFH 6WRUHG (QHUJ\



)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 WKULUDHQHJLRQFH KDQQOIZHF(KQHFORURQLF /WHG UHV
ULJKW WR PDNLHWKRXVHQHVLVSHFIRIWRDWSLRQG RFWV GLVSPDARIYGHKWHWOLDEWOGHVLJQQF
RU RWKHUZZLVH

7KH SURGXFWQLVWGHV/KJHGL WR EH HXVHHGWZLRQK RUGXQSDHQW RU GHYLFHWKDQGQ
HTXLSPHQW RU GHYLFHV ZKLFK UHTXLWKHKEDIOIZQVWOLZRXDIBOQDEHQHWOKEFKQDOVLIH
PHGLFDO LQVWUXEHMSRUWHDQWLROHUTXLSPH RQFIOHQ U UHDFWRHO FFRQWUFRDOOHV DQ
GHYLFHV <DQJMLHLVRV DQKROH DQVXRLOVQARRWHO SREQVLEWHVROVLIQJGIDRPPJMHK LP
RI VDOH

7KLV SXEOLFDWLROISVXSHUWIDGIDVLQURUPDWSLROLSGHYLRXDGGLWLRQDO LQWRUPDWLR
KWWSZ [\DQJMLH](#)FRPRQVXOW \RXU QHDUHVW <DQJMLVHIDQVFDHOHV RIILFH IRU IXUW