



MURS320

Surface Mount Ultrafast Rectifier Diode

Features

- " 80WUDIDVW UHYHUVH UHFRYHU\ WLPH
- " /RZ OHDNDJH FXUUHQW
- " /RZ VZLWFKLQJ ORVVHV KLJK HIILFLHQF\
- " +LJK IRUZDUG VXUJH FDSDELQW\
- " 6ROGHU GLS $f \& \text{BJU} - (6' \%$

Typical Applications

)RU XVH LQ KLJK ~~LUHFDXWQRQ~~ ~~UDFCG~~ WIIUHHZKHHO
 DSSOLFDWLRQ LQ VZLWFKLQJ PRGH FRQYHUW
 IRU FRQVXPHU FRPSXWHU DQG WHOHFRPPXQ

Mechanical Data

- " Package '2 \$% 60&
- 0ROGLQJ FRPSRXQG PHHWV 8/ 9 IODPPDEL
- 5R+6 FRPSOLDQW KDORJHQ IUHH
- " Terminals 7LQ SODWHG OHDGV VROGHUDEOH S
- 67' DQG -(6' %
- " Polarity &RORU EDQGVKHQRDWKRGH HQG

Maximum Ratings \bar{D} 8QOHVV RWKHUZLVH VSHFLILHG

PARAMETER	SYMBOL	UNIT	MURS320
'HYLFH PDUNLQJ FRGH			0856
0D[LPXP 5HSHWLWLYH 3HDN 5HYHUVH	9ROWDJH		9550 9
0D[LPXP 506 9ROWDJH		950\$	
0D[LPXP ' & EORFNLQJ 9ROWDJH		9 9' &	
\$YHUDJH 5HFWLILHG 2XWSXW & XUHQW # +] VLQH ZDYH 5HVLVWDQFH ORDG 7/), *2			\$
)RUZDUG 6XUJH & XUHQW 1RQ UHSHWLWLYH # +] +DOI VLQH ZDYH F\FOH 7M			\$
)RUZDUG 6XUJH & XUHQW 1RQ UHSHWLWLYH # PV VTXDUH ZDYH F\FOH 7M			\$
& XUHQW VTXDUHG WLPH # PV"W" PV 7M5DWLQJ RI SHU GLRGH	, W	\$ V	
6WRUDJH 7HPSHUDWXUH		- 7VWJ	a
-XQFWLRQ 7HPSHUDWXUH		- 7M	a

Electrical Characteristics $\sim 7D$ 8QOHVV RWKHUZLVH VSHFLILHG

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MURS320
0D[LPXP LQVWDQWDQRXV IRUZDUG YROWDJH	9,)0 9\$,
0D[LPXP UHYHUVH UHFRYHU\ WLPH			W) \$5Q \$	V
0D[LPXP ' & UHYHUVH FXUUHQW DW UDWHG ' & EORFNLQJ YROWDJH			7M -	\$
			7M -	

7\SLFDO MXQFWLRQ FDSDFLWDQFH
 0HDVXUHG DW 0+] DQG
 \$\$\$LHG 5HYHUVH 9ROWDJH RI



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Dynamic Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
5HYHUVH 5HFRYHU\ 7LPH ₅		QV	7M) \$ GL GW 9 ₅₀ 9	\$ XV	
			7M			
			7M			
3HDN UHFRYHU\ FXUJHQW		\$	7M) \$ GL GW 9 ₅₀ 9	\$ XV	
			7M			
5HYHUVH UHFRYHU\ FKDUJH		Q &	7M			
			4UU			
			7M			
1RQ UHSHWLWLYH DYDODQFKH PLQH UJW			(5 \$ / P ‡			

Thermal Characteristics ~ 7D 8QOHVV RWKHUZLVH VSHFLILHG

PARAMETER	SYMBOL	UNIT	MURS320
7\SLFDO 7KHUPDO	5 . \$		
	UHVLVWDQFH :		
	5 . &		

1RWH

7KHUPDO UHVLVWDQFH R DPER HQV FVLRQ RDB GRQRW RQ WQ 3 & % ZLWK [U SDG DRPHDV PP

Ordering Information ([DP SOH

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MURS320)	\$SSUR[LPDWH				

Characteristics 7\SLFDO

FIG.1: Io-TL Curve

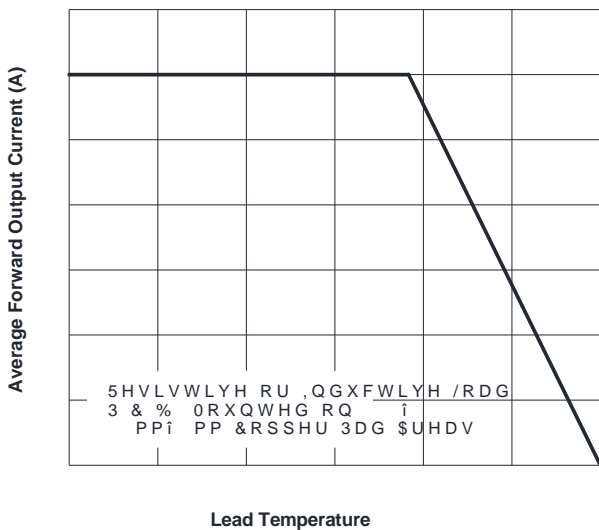
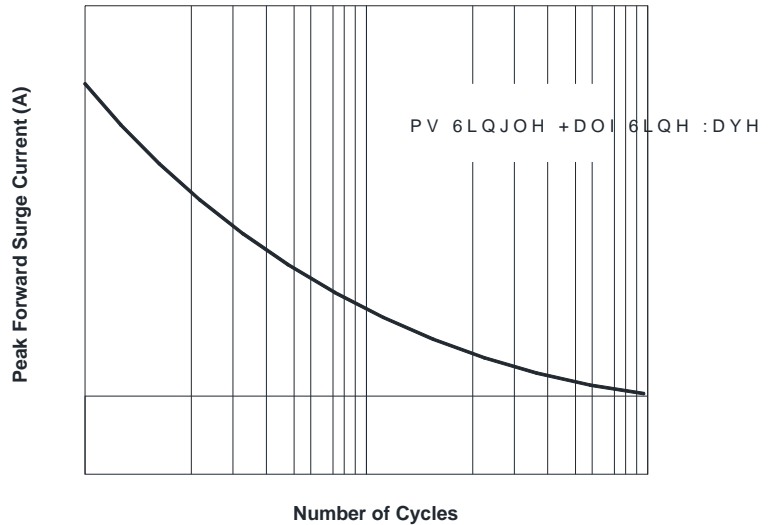


FIG.2: Forward Surge Current Capadility





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Disclaimer

7KH LQIRUPDWLRQ SGRVHQMHG LQ IRKLVHDIHQJHQRK-BQJMLH (OHFWURQLF 7HHKQRO
ULJKW WR PDNH FKDLFHVRZLWKR XWSKRLSULFDGXFRQ/ FGLWSOD\HG KHUHLQ WR LPSURY