



# Ultra-Fast Recovery Diodes 30A FRED Pt

## Features

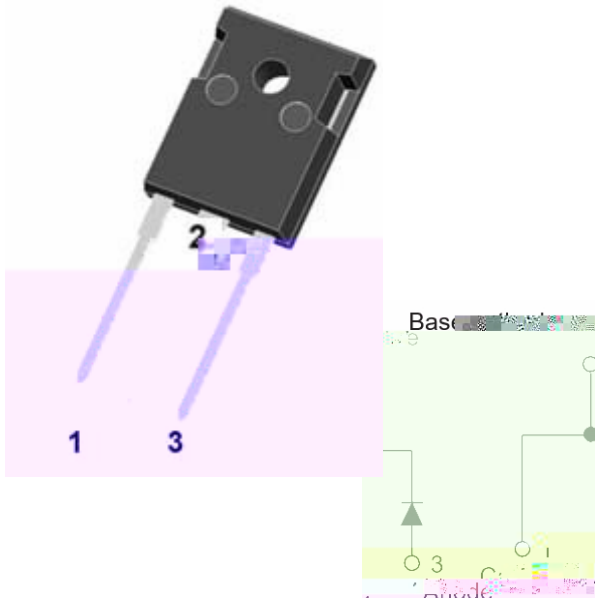
- W\$OR SFKLS
- " /RZ IRUZDUG 9ROWDJH GURS
- " )DVW UHYHUVH UHFRYHU\ WLPH
- " +LJK IUHTXHQF\ RSHUDWLRQ
- " +LJK SXULW\ KLJK WHPSHUDWXUH HSR[\ H
- HQKDQFHG PHFKDQDQDOPRWUMQUWKUHVLVWDQ
- " \*XDUG ULQJ IRUXHQRKQHMV DQG ORQJ WHU
- UHOLDELOLW\

## Typical Applications

- "7\SLFDO DSSOLFVWVFCVQJUSIRZHU VXSSOLHV
- FRQYHUWHUV IUHHZQKQHONQHUGLHFRW WHU

## Mechanical Data

- " Package 72 \$ &
- ORGLQJ FRPSRQDQGH PHHWDPPDELOLW\
- UDWLQJ 5R+6 FRPSOLDQW
- " Terminals 7LQ SODWHG OHDGV VROGHUDEOH
- DQG -(6' %
- " Polarity \$V PDUNHG



## Maximum Ratings

PARAMETER	SYMBOL	UNIT	MURL3065P ...PT<e/-yf@\$p Äp€•Ä'
5HSHWLWLYH 3HDN 5HYHUVH 9ROWDJH	$I_{T0}$	A	9
\$YHUDJH 5HFWLILHG 2XWSXW & XUUHQW # +] VLQH ZDYH 5 ORDG 7F )	$I_{RMS}$	A	5
6XUJH 1RQ UHSHWLWLYH )RUZDUG & XUUHQW # +] KDOI VLQH ZDYH F\FOH 7M )60	$I_{SM}$	A	60
&XUUHQW 6TXDUHG 7LPH # PV"W" PV,W	$V_{WM}$	V	60
6LQJOH 3XOVH \$YDODQFKH (QHUJ\ # 7M / P+	$V_{SM}$	V	60
6WRUDJH 7HPSHUDWXUH	$T_{VWJ}$	°C	175
-XQFWLRQ 7HPSHUDWXUH	$T_M$	°C	175
7\SLFDO -XQFWLRQ FDSDFLWDQFH # 9M+] ]	$t_{SM}$	s	100
ORXQWLQJ WRUTXH #UHFRPPHQGÖWRUJFH7RU NJ FP	$T_{RU}$	°C	175



# MURL3065P

## Electrical Characteristics

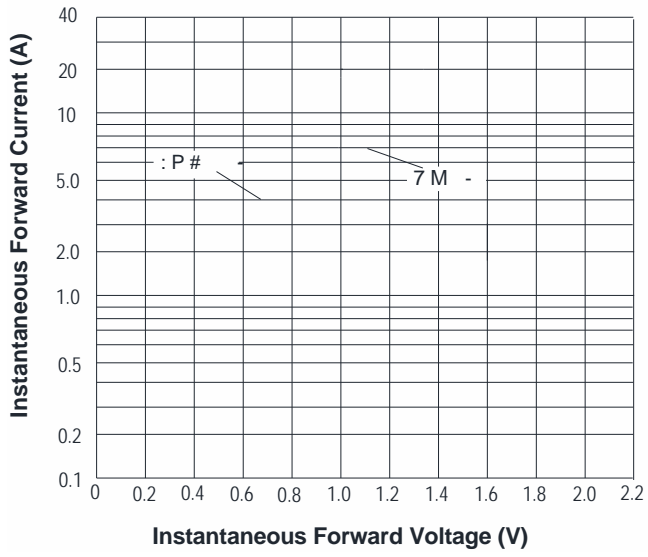
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
, QVWDQWDQHRXV IRUZDUG YROWDJH GURS SHU CLRCH			90 \$ #7M -			
			90 \$ #7M -			
' & UHYHUVH FXUUHQW DW UDWHG ' & EORFNLQJ YROWDJH SHU CLRCH	550		950 9550 7M -			
			950 9550 7M -			
5HYHUVH 5HFRYHU\ 7LPH		QV	95 \$ 50, \$ 55 \$ 7M			
			7MUJ			
3HDN UHFRYHU\ FXUUHQW	550	\$	7M -			
			7M -	950 9 GL GW \$ XV		
5HYHUVH UHFRYHU\ FKDUJH		Q &	7M -			
			7M -			

## Thermal Characteristics

PARAMETER	SYMBOL	UNIT	MURL3065P
7KHUPDO 5HVLVWDQFH	%HWZHHQ MXQFWLRQ DQG DVH	- : 5	
	%HWZHHQ MXQFWLRQ DQG LU	- : 5	



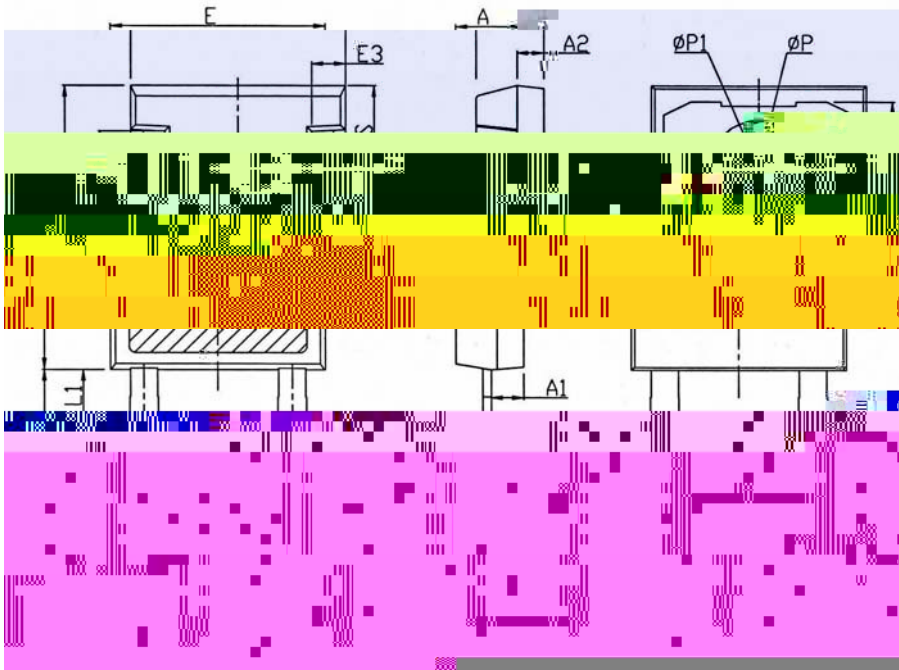
FIG3: Forward Voltage





# MURL3065P

## vOutline Dimensions



TO-247AC		
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(		
(		
H	7 < 3	
/		
/		
33		
33		
6	7 < 3	



# MURL3065P

## Disclaimer

7KH LQIRUPDWLRQ SGRVH QMQLG LQ IRWLVKHDIHQJHQRK BQJMLH (OHFWURQLF 7HFHQRO  
ULJKW WR PDNH FKDLQJH VRZLWKR XWS KRLS IURDG XIERQ/ RGLWSOD\HG KHUHLQ WURGLPVLWRQ  
RU RWKHUZLVH

7KH SURGXFW OLVWHG KHUHLQ LV GHVQLH QWGRVOR FEHTXVLSBHZLWKRUR LGHLYLDFHVVWIDQG  
HTXLSPHQW RU GHYLFHV ZKLFK UHTGLW KHKE DKO OXQYHVOGRQ LURHOLMDEL QVSD OXQFKU DXP  
PHGLFDO LQVWUXPHQW VIT WLSRQHVSUR UWHVURV SOXFFO FDEKWLQDF WFRLO FFRQVQLGRBOHVMU V  
GHYLFHV <DQJMLH RU DQIRQH RQ LWVQEMK DROI OLVEXLQHLWQRU W HXGRQDYE BJKV HUH V  
RI VDOH

7KLV SXEOLFDFWLRQ ISVXSFFHUV IDGIDVLQURQJPDVXLSRQLS GHYRUR XDGGLWLRQDO LQWRHUPDWLR