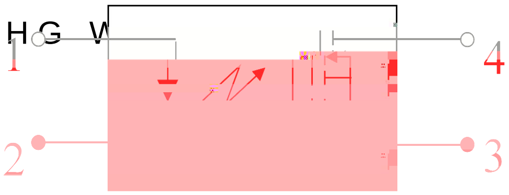
JOR216D4-D8 Series

600V MOSFET Output Photo Relay

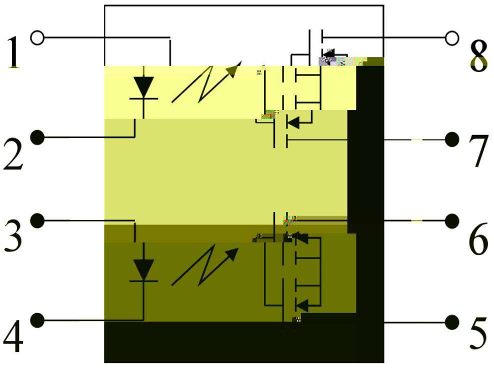
Description

7KH -25 ' ' 3KRWR5HOD\ FRQVLVW RI D 3KRWR026)(7 HOHFWULF JHQHUDWRU RSWLFDOO\ FRXSOHG ZLWK LQIUDUHG /('

Block Diagram and Package



1: Anode (LED)
2: Cathode (LED)
3, 4: Drain (MOS FET)



, : $QRGH ('/(')
: &DWKRGH (/(')
: 'UDLQ (026)(7)

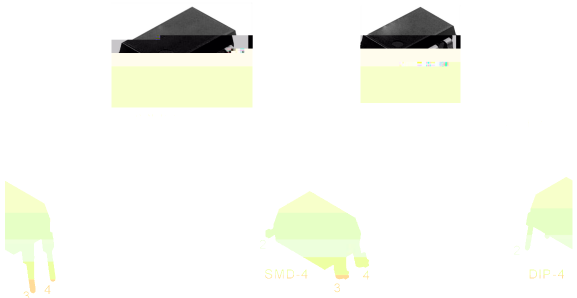
Features

- 1RUPDOO\ RSHQ 6367
- &RQWURO $& RU '& YROWDJH
- 6ZLWFK $& ORDG
- &RQWURO ORZ OHYHO DQDORJ VLJQDOV
- +LJK VHQVLWLYLW\ ORZ FRQGXFWLYLW\ UHVLVWDQFH
- /RZ OHYHO RII VWDWH OHDNDJH FXUUHQW
- +LJK LVRODWLRQ YROWDJH ',3 60'
- /HDG IUHH DQG 5R+6 VWDQGDUGV

Applications

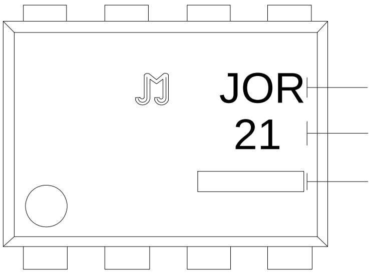
- &RPPXQLFDWLRQ SURGXFWV SHUVRQDO FRPSXWHUV ODSWRSV
- 0RGHP VHQVRU
- 0RELOH SKRQHV VHFXULW\ HTXLSPHQW
- 0HDVXULQJ DQG WHVWLQJ HTXLSPHQW
- 3ODQW DXWRPDWLRQ HTXLSPHQW
- +LJK VSHHG LQVSHFWLRQ PDFKLQHV

PACKAGE OUTLINE



ORDERING AND MARKING INFORMATION

MARKING INFORMATION



: Company Abbr.
: Part Number & Rank
: Production Information Code

Packing Quantity

Option	Quantity	Quantity – Inner box	Quantity –Outer box
DIP4	100 Units/Tube	32 Tubes/Inner box	10 Inner box/Outer box =32k Units
SMD4	1500 Units/Reel	3 Reels/Inner box	5 Inner box/Outer box =22.5k Units
DIP8	50 Units/Tube	40 Tubes/Inner box	5 Inner box/Outer box =10k Units
SMD8	1200 Units/Reel	2 Reels/Inner box	5 Inner box/Outer box =12k Units

,QSXW	/(' &}ŒÁ Œ µŒ	,)		P$	
	/(' Z À Œ• s}oš	9_5		9	
	W l &}ŒÁ Œ µ	$,)_3$		$	(Aíìì ,ÌU µšÇ (š}ŒA
	W}Á Œ]••]‰ š]	3		P:	
2XWSX	/RDG 9ROWDJH	$9_/$		9	
	}vš]vµ}µ• o} µ ~‰ l •	$,_/$		$	
	W l o} µŒŒ v	$,_{SHDN}$		$	PV VKRW&
	W}Á Œ]••]‰ š]	3_{RXW}		P:	',3 60' ',3 60'
/lK]•}o š]}v À}oš		9_{LVR}		9UP	',3 60'
d u‰ Œ šµ o]u]š•	K‰ Œ š]vP	7_{RSU}	± ƒ& a ƒ&	ƒ&	E}vr }v v•]vP š u‰
	^š}Œ P	7_{VWJ}	± ƒ& a ƒ&		

Electro-optical Characteristics d Aqî ñ

3DUDPHWHU		6\PER	&RQGLWL	0LQ	7\S	0D[	8QL
,QSXW	/(')RUZDUG FXUU	,)RQ	,/ $				P$
	/(' WXUQ RII FXUU	,)RII	,/ $				P$
	/(' GURSRXW YRO	9)	,) P$				9
2XWSXW	2Q UHVLVWDQFH	5RQ	,) P$È ,/ $È :LWKLQ V R				:
	2II VWDWH OHDND	,/HDN	,) P$È 9/ 9				Q$
dŒ v•(Œ Z Œ š C	7XUQ RQ WLPH	7RQ	,) P$È ,/ $				XV
	7XUQ RII WLPH	7RII	,) P$È ,/ $				XV
	, 2 FDSDFLWDQFH	&LVR	I 0+]È 9%				S)
	,QLWLDO , 2 LVRO	5LVR	9 '&				0:

1RWH /(' IRUZDUG FXUUHQW ,) UHFRPPHQGDWLRQ YDOXH ,

7\SLFDO Performance Curves

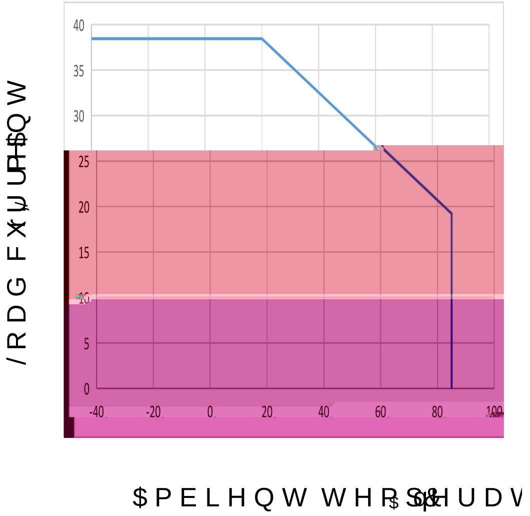


Fig.1 Load current vs. Ambient temperature characteristics

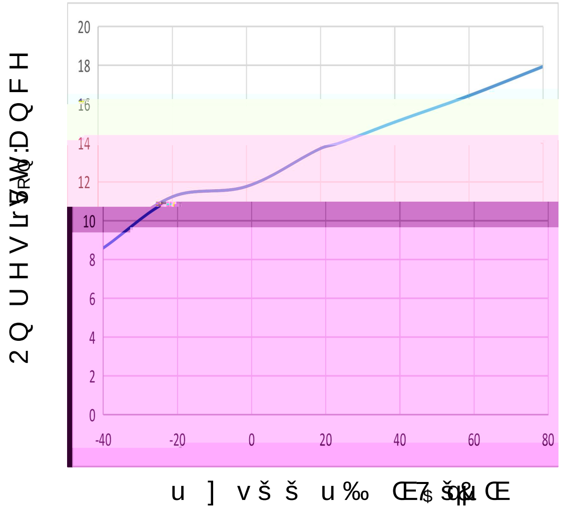
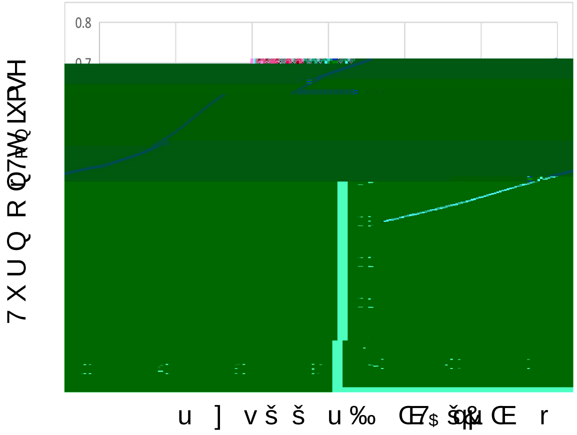
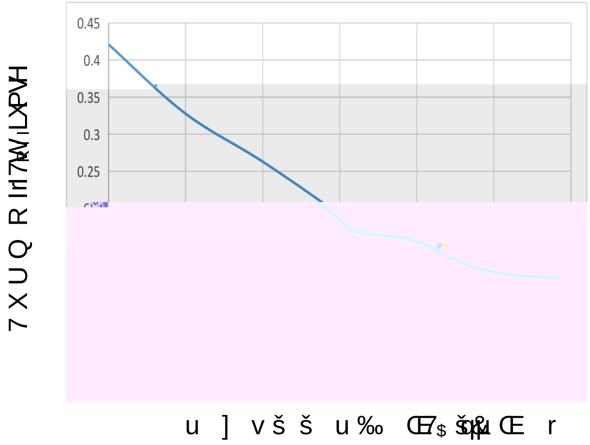
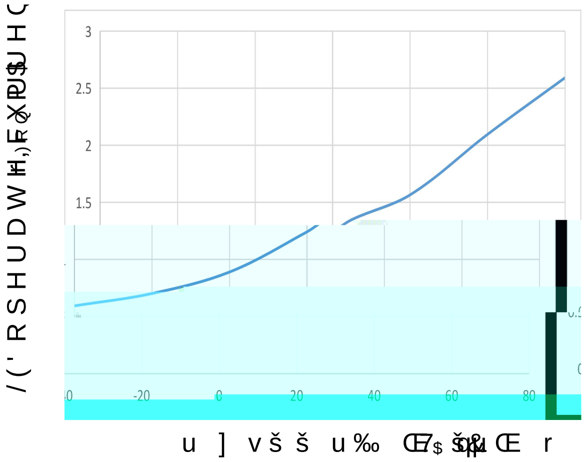


Fig.2 On resistance vs. Ambient temperature characteristics


0.8
0.7
7XUQ RQ 7LPH
u] vš š u‰ Œ$ šµŒ r


0.45
0.4
0.35
0.3
0.25
7XUQ RII 7LPH
u] vš š u‰ Œ$ šµŒ r


3
2.5
2
1.5
-20
0
20
40
60
80
/(' RSHUDWH FXUUHQW
u] vš š u‰ Œ$ šµŒ r

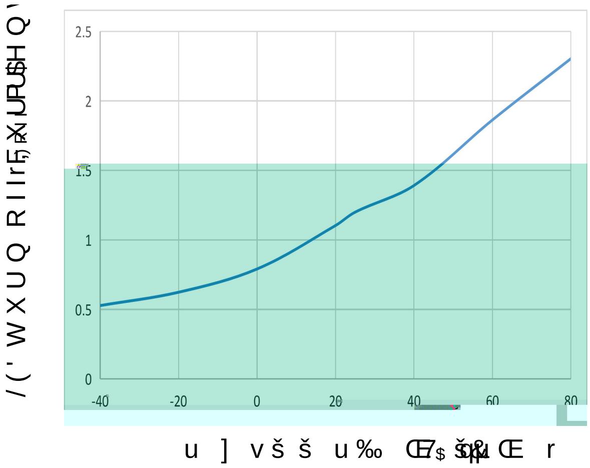

2.5
2
1.5
1
0.5
0
-40
-20
0
20
40
60
80
/(' WXUQ RII FXUUHQW
u] vš š u‰ Œ$ šµŒ r

Fig.7 LED dropout voltage vs. Ambient temperature characteristics

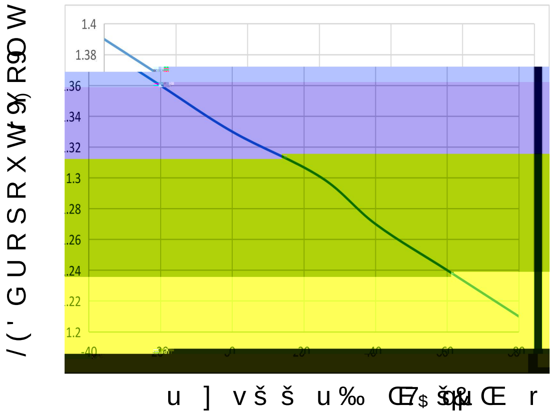


Fig.8 Output current vs Output voltage

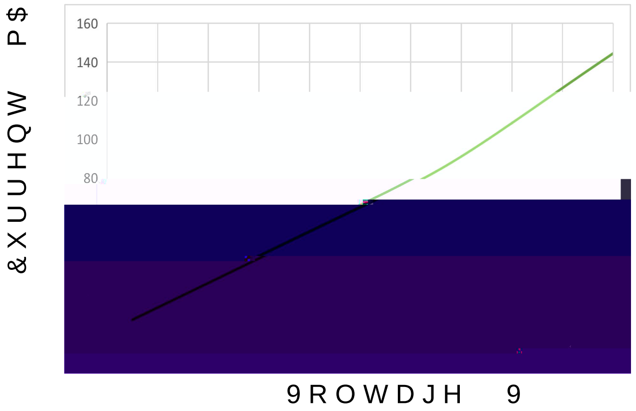


Fig.9 Off state leakage current vs Load voltage characteristics

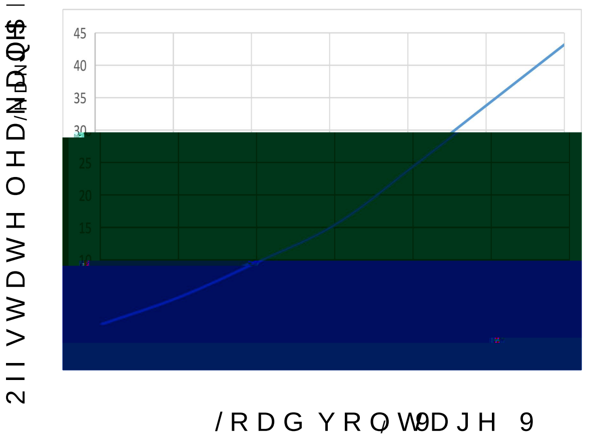


Fig.10 Turn on time vs Forward current characteristics

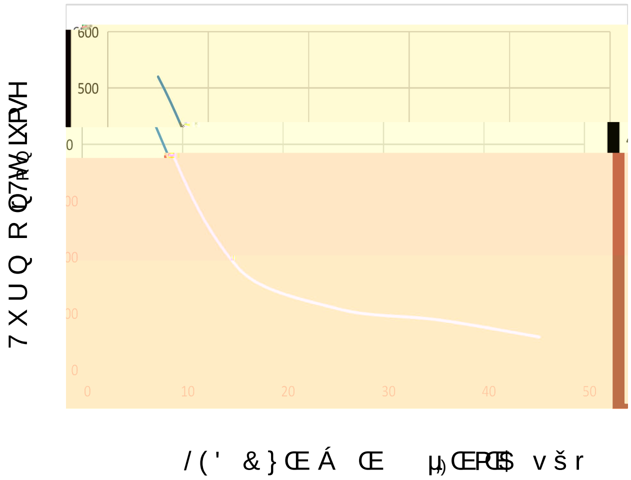
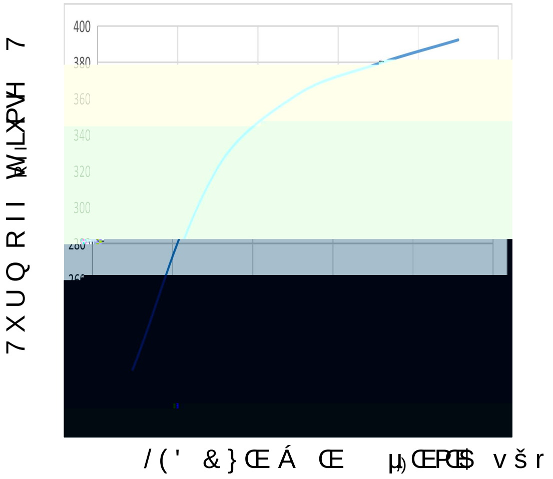
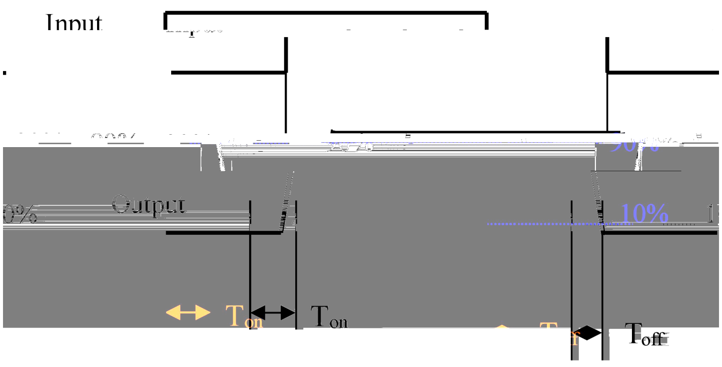


Fig.11 Turn off time vs Forward current characteristics

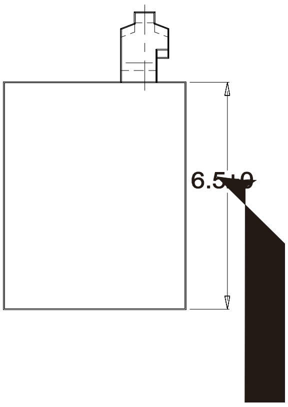


¾ 7XUQ RQ RII WLPH



Kµšo]]vu v•]}v•

8QLW PP



µ ^D rð~Z o•