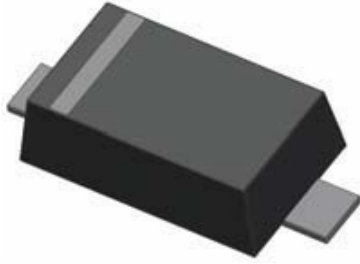




### Small-Signal Fast Switching Diodes



#### Features

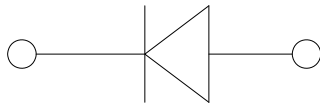
- " (SR[\ PHHWV 8/ 9 ELICOLDV\ PUDWLQJ DQG KDC
- " 0RLVWXUH 6HQVLWLYLW\ /HYHO
- " 9 9
- " )\$9 P\$
- " 3DUW QR ZLWRKH\XIVL\$(3& 4 TXDOLILHG

#### Typical Applications

- ")DVW 6ZLWFKLQJ 6SHHG

#### Mechanical Data

- " Package 62'
- " Terminals 7LQ SODWHG OHDGV VROGHUDEOH S
- 67' DQG -(6' %
- " Polarity: &DWKRGH OLOWKBFORWKIRGH HQG
- " Marking: 6



#### Maximum Ratings

| PARAMETER                               | SYMBOL          | UNIT          | Conditions | VALUE |
|---|-----------------|---------------|------------|-------|
| 5SHWLWLYH SHDN UHYHUVH YROWDJH          | $V_{R0}$        | V             |            | 9     |
| 5HYHUVH YROWDJH                         | $V_S$           | V             | 5 9X\$     |       |
| 3HDN IRUZDUG VXUJH FXUUHQW              | $I_{R0}$        | A             | 3 7PV      |       |
| \$YHUDJH IRUZDUG FXUUHQW                | $I_{S9}$        | A             |            |       |
| 3RZHU GLVVLSDWLRQ                       | $P_{WRW}$       | mW            |            |       |
| 7KHUPDO 5HVLVWDQFH -XQFWLRQ WR-\$PELHQW | $R_{\theta JK}$ | $^{\circ}C/W$ |            |       |

0D[LPXP MXQFWLRQ WHPHUDWXUH7

WR

|                   | 6\PERO   | 81,7 | &RQGLWLRQV | 0LQ | 0D[ |
|-------------------|----------|------|------------|-----|-----|
| %UHDNGRZQ 9ROWDJH | $V_{R5}$ |      | 5 X\$ 9    |     |     |
|                   |          |      | ) P\$      |     |     |

)RUZDUG 9ROWDJH

)

9

) 5P\$HUVH 5HFRYHU\ 7LPH

7

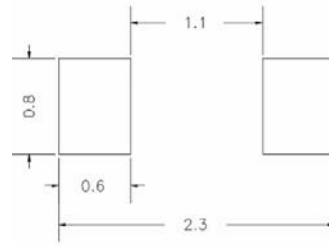
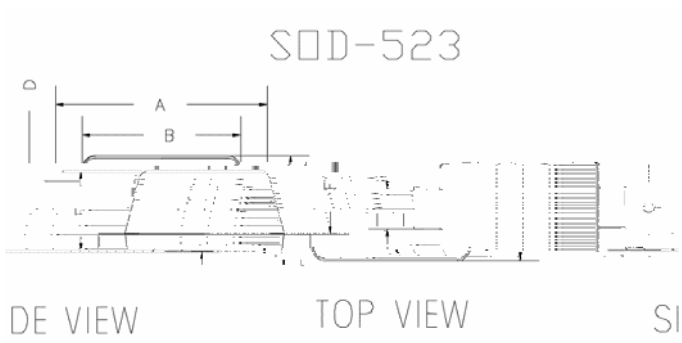
|  |    |    |              |  |  |
|--|----|----|--------------|--|--|
|  | 55 | XV | ) 5 P\$ 55 5 |  |  |
|--|----|----|--------------|--|--|





# BAS716Q

## vOutline Dimensions

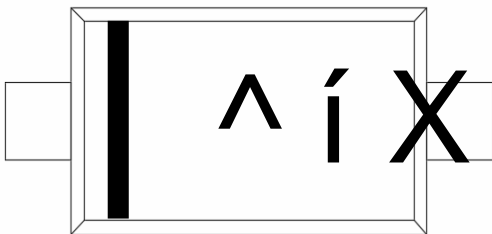


UNIT: mm

SUGGESTED SOLDER PAD LAYOUT

| DIMENSIONS |        |       |       |       |
|------------|--------|-------|-------|-------|
| DIM        | INCHES |       | MM    |       |
|            | MIN    | MAX   | MIN   | MAX   |
| A          | 0.059  | 0.067 | 1.500 | 1.700 |
| B          | 0.043  | 0.051 | 1.100 | 1.300 |
| C          | 0.190  | 0.028 | 0.035 | 0.700 |
| D          | 0.350  | 0.010 | 0.014 | 0.250 |
| E          | 0.100  | 0.102 | 0.108 | 0.150 |
| F          | 0.200  | 0.020 | 0.028 | 0.300 |

## vMarking Information



```

1RWH
$OO PDUNLQJ LV DW PLGGOH RI WKH SURGXFW ERG\
$OO PDUNLQJ LV LQ ODVHU PDUNLQJ
%RG\ FRORU %ODFN
  
```



# BAS716Q

## Disclaimer

7KH LQIRUPDWLRQ SGRFWRUHQW LQ IRWLVKIDJHQRK-BQJMLH (OHFWURQLF 7HFKQRO  
ULJKW WR PDNH F QLPH IRZL WKRXWSGRMSURFDGXIFRQV RGLWSOD\HG KHUHLQL UWRHVP  
RU RWKHUZZLVH

dZ %CE} μ š o]•š Z CE ]v ]• •]Pv š}o šCE) vÁššZ•]Pš}u}š]CE μ• ]v u ] oU  
• À]vPU o](•μ•š]v]vPU}CE u]o]šÇUz voR U] +CE uv Ç}v•]v]o]P Ç]ZS Ç (}CE v]Co u  
š]vP (CE)u •μ Z ]u%CE}% CE μ• }( • o X

7KLV SXEOLFDWLRQ ISVXSFFHUW IDGIDVLQI RQAPDXVLSRQL ISGHYRUR XDG GLWLRQFDO LQIRUPDWL  
KWW [VZZ](#) \DQJMLHRFRFRPRQVXOW \RXU QHDUHVW <DQJMLVHM]DQVFDIOHV RIILFH IRU IXUW