# SOT23 SCHOTTKY BARRIER DIODES

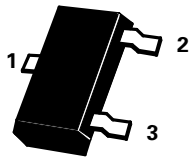
**ZC2800E**
**ZC2811E**
**ZC5800E**

**ISSUE 2 – MARCH 1995** ✪

## DIODE PIN CONNECTION




PARTMARKING DETAIL
ZC2800E – E6
ZC2811E – E8
ZC5800E – E9




**SOT23**

## ABSOLUTE MAXIMUM RATINGS.

| PARAMETER | SYMBOL | VALUE | UNIT |
|---|---|---|---|
| Power Dissipation at $T_{amb}$ = 25°C | $P_{tot}$ | 330 | mW |
| Operating and Storage Temperature Range | $T_j$:$T_{stg}$ | -55 to +150 | °C |

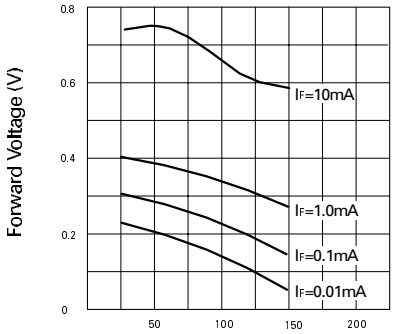
## ELECTRICAL CHARACTERISTICS (at $T_{amb}$ = 25°C).

| PARAMETER | TYPE | SYMBOL | MIN. | TYP. | MAX. | UNIT | CONDITIONS. |
|---|---|---|---|---|---|---|---|
| Breakdown Voltage | ZC2800E<br>ZC2811E<br>ZC5800E | $V_{BR}$ | 70<br>15<br>50 | | | V<br>V<br>V | $I_R$=10μA |
| Reverse Leakage Current | ZC2800E<br>ZC2811E<br>ZC5800E | $I_R$ | | | 200<br>100<br>200 | nA<br>nA<br>nA | $V_R$=50V<br>$V_R$=10V<br>$V_R$=35V |
| Forward Voltage | ZC2800E<br>ZC2811E<br>ZC5800E | $V_F$ | | | 410<br>410<br>410 | mV<br>mV<br>mV | $I_F$=1mA |
| Forward Current | ZC2800E<br>ZC2811E<br>ZC5800E | $I_F$ | 15<br>20<br>15 | | | mA<br>mA<br>mA | $V_F$=1V |
| Capacitance | ZC2800E<br>ZC2811E<br>ZC5800E | $C_T$ | | | 2.0<br>1.2<br>2.0 | pF<br>pF<br>pF | $V_R$=0 V, f=1MHz |
| Effective Minority Lifetime (1) | ZC2800E<br>ZC2811E<br>ZC5800E | τ | | | 100<br>100<br>100 | ps<br>ps<br>ps | f= 54 MHz<br>$I_{pk}$= 20mA |

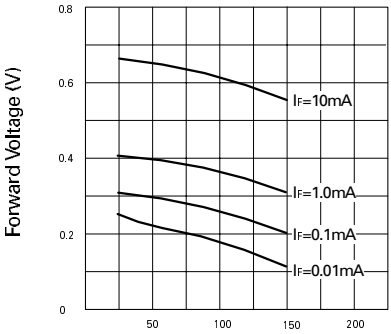
(1) Sample Test.

**ZC2800E**
**ZC2811E**
**ZC5800E**

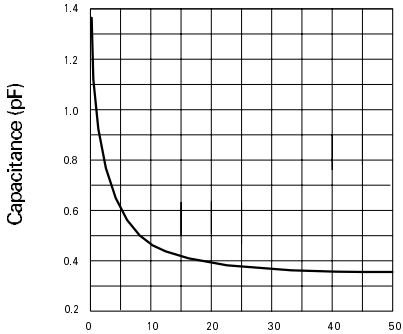
# TYPICAL CHARACTERISTICS



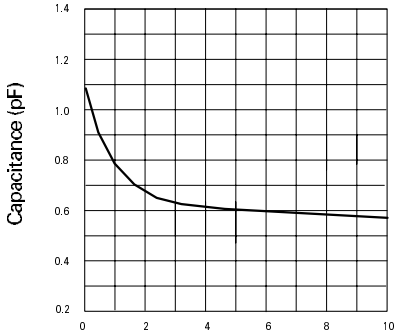

**(ZC2800E & ZC5800E)**




**(ZC2811E)**

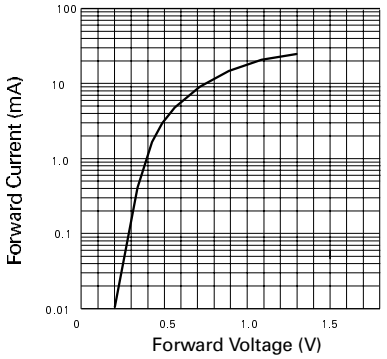



**(ZC2800E & ZC5800E)**

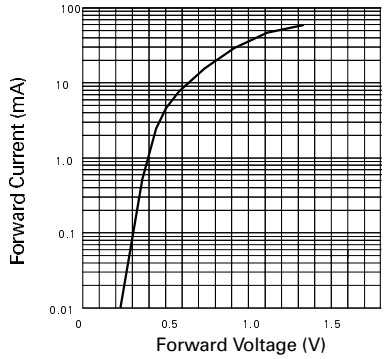



**(ZC2811E)**

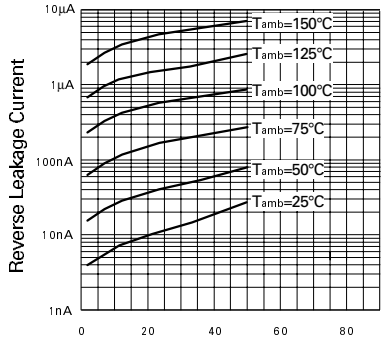
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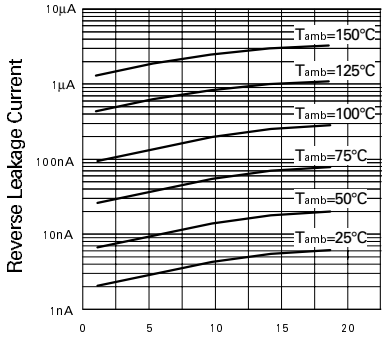

**(ZC2800E & ZC5800E)**



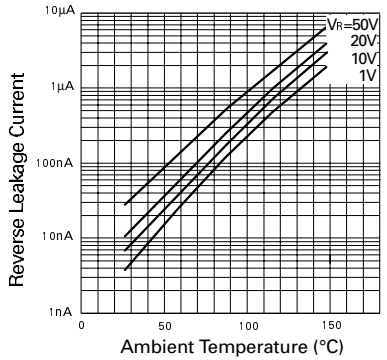

**(ZC2811E)**



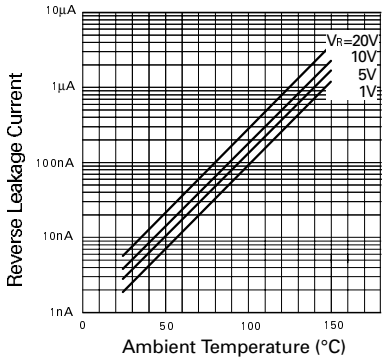

**(ZC2800E & ZC5800E)**




**(ZC2811E)**




**(ZC2800E & ZC5800E)**




**(ZC2811E)**