

# SOD323 SCHOTTKY BARRIER DIODES

**ZMS2800  
ZMS2811  
ZMS5800**

**ISSUE 1 – NOVEMBER 1998** ☺

## FEATURES

- \* Miniature Surface Mount Packages
- \* Low turn-on voltage
- \* Pico second switching speed
- \* High breakdown voltage

## APPLICATIONS

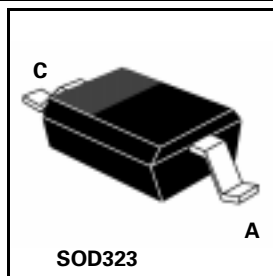
- \* Mixers
- \* Detectors
- \* Switching

## PARTMARK

ZMS2800 - BA

ZMS2811 - BC

ZMS5800 - BB



## ABSOLUTE MAXIMUM RATINGS.

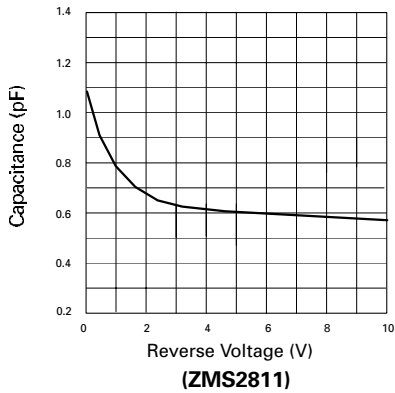
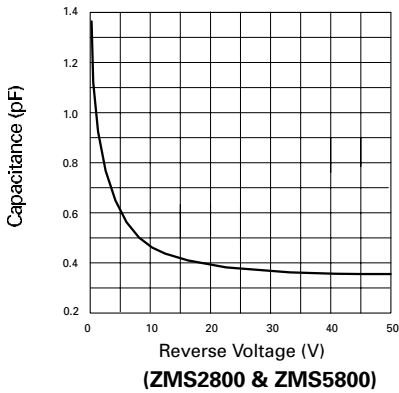
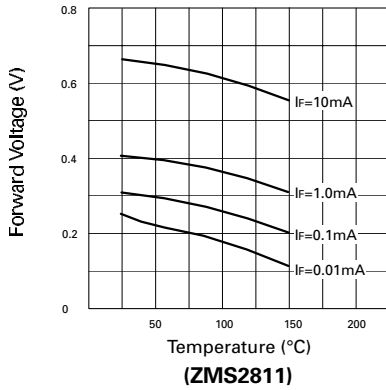
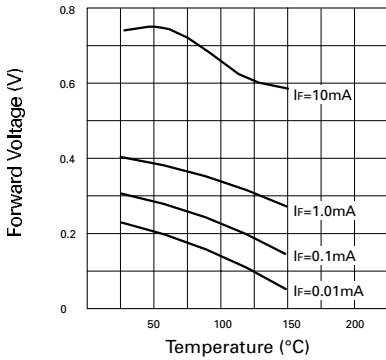
PARAMETER	SYMBOL	VALUE	UNIT
Forward Current (1 $\mu$ s pulse)	$I_F$	1	A
Power Dissipation at $T_{amb} = 25^\circ\text{C}$	$P_{tot}$	250	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^\circ\text{C}$

## ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^\circ\text{C}$ ).

PARAMETER	TYPE	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Breakdown Voltage	ZMS2800 ZMS2811 ZMS5800	$V_{BR}$	70 15 50			V V V	$I_R = 10\mu\text{A}$
Reverse Leakage Current	ZMS2800 ZMS2811 ZMS5800	$I_R$			200 100 200	nA nA nA	$V_R = 50\text{V}$ $V_R = 10\text{V}$ $V_R = 35\text{V}$
Forward Voltage	ZMS2800 ZMS2811 ZMS5800	$V_F$			410 410 410	mV mV mV	$I_F = 1\text{mA}$
Forward Current	ZMS2800 ZMS2811 ZMS5800	$I_F$	15 20 15			mA mA mA	$V_F = 1\text{V}$
Capacitance	ZC2800E ZC2811E ZC5800E	$C_T$		1.2 1.0	2.0 1.2 2.0	pF pF pF	$V_R = 0\text{V}$ , $f = 1\text{MHz}$
Effective Minority Lifetime (1)	ZC2800E ZC2811E ZC5800E	$\tau$			100 100 100	ps ps ps	$f = 54\text{MHz}$ $I_{pk} = 20\text{mA}$

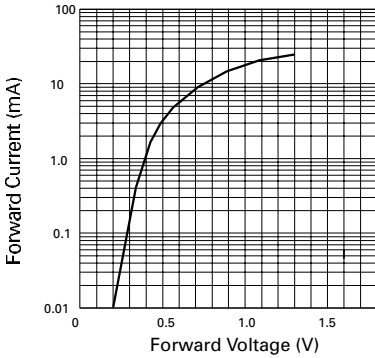
**ZMS2800E**  
**ZMS2811E**  
**ZMS5800E**

## TYPICAL CHARACTERISTICS

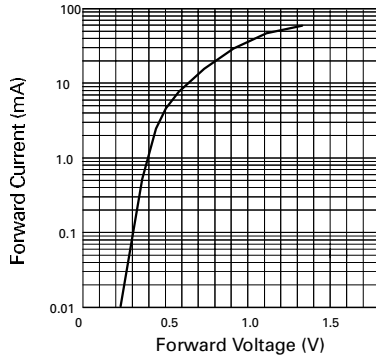


**ZMS2800E  
ZMS2811E  
ZMS5800E**

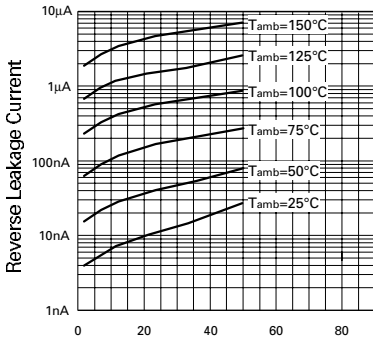
**TYPICAL CHARACTERISTICS**



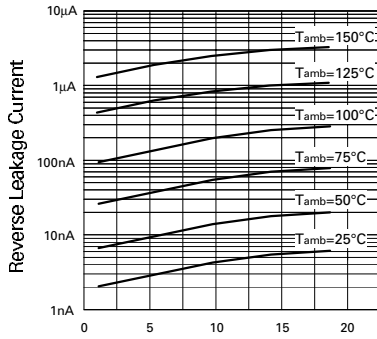
**(ZMS2800 & ZMS5800)**



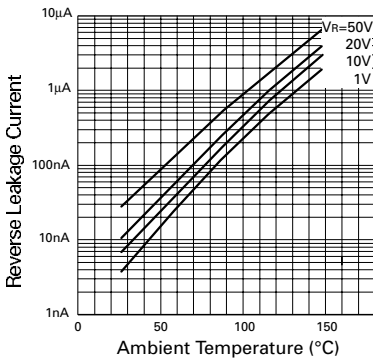
**(ZMS2811)**



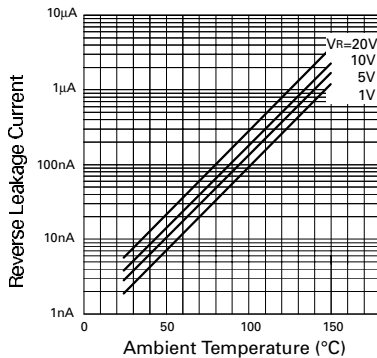
**(ZMS2800 & ZMS5800)**



**(ZMS2811)**



**(ZMS2800 & ZMS5800)**



**(ZMS2811)**