



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

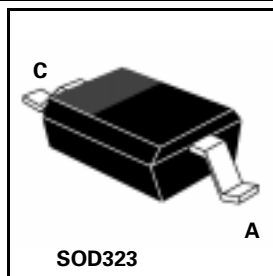
- * Mixers
- * Detectors
- * Switching

PARTMARK

ZMS2800 - BA

ZMS2811 - BC

ZMS5800 - BB



ABSOLUTE MAXIMUM RATINGS.

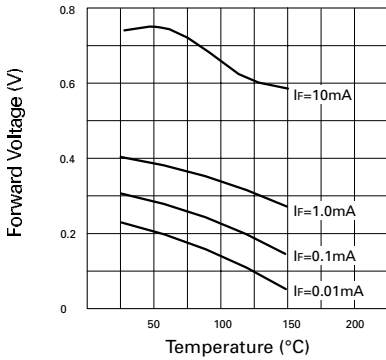
PARAMETER	SYMBOL	VALUE	UNIT
Forward Current (1 μ s pulse)	I_F	1	A
Power Dissipation at $T_{amb} = 25^\circ\text{C}$	P_{tot}	250	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^\circ\text{C}$

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

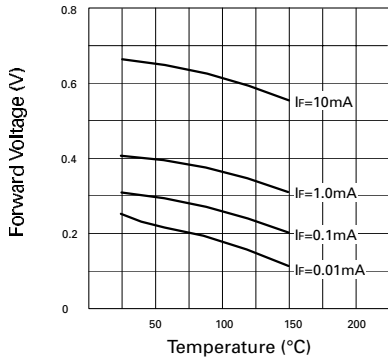
PARAMETER	TYPE	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Breakdown Voltage	ZMS2800 ZMS2811 ZMS5800	V_{BR}	70 15 50			V V V	$I_R = 10\mu\text{A}$
Reverse Leakage Current	ZMS2800 ZMS2811 ZMS5800	I_R			200 100 200	nA nA nA	$V_R = 50\text{V}$ $V_R = 10\text{V}$ $V_R = 35\text{V}$
Forward Voltage	ZMS2800 ZMS2811 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	τ			100 100 100	ps ps ps	$f = 54\text{MHz}$ $I_{pk} = 20\text{mA}$

ZMS2800E
ZMS2811E
ZMS5800E

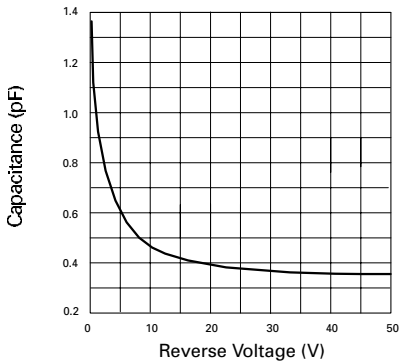
TYPICAL CHARACTERISTICS



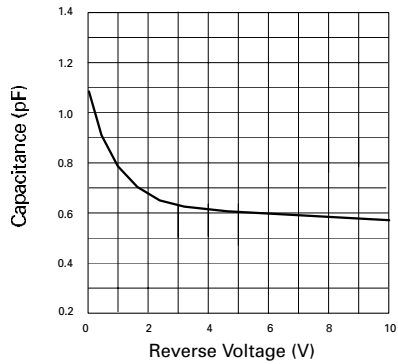
(ZMS2800 & ZMS5800)



(ZMS2811)



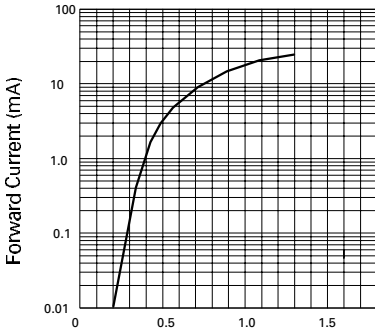
(ZMS2800 & ZMS5800)



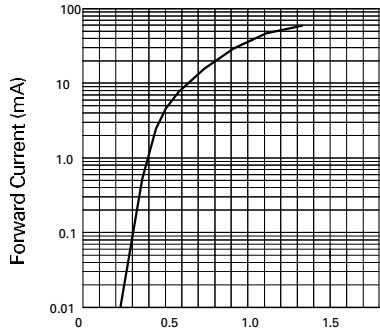
(ZMS2811)

**ZMS2800E
ZMS2811E
ZMS5800E**

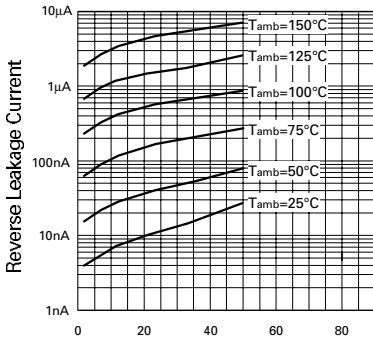
TYPICAL CHARACTERISTICS



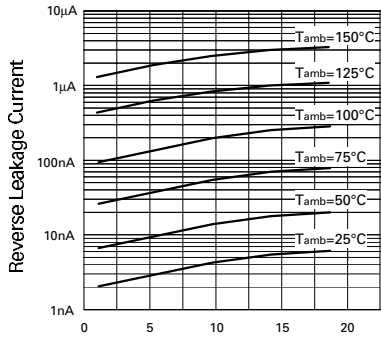
(ZMS2800 & ZMS5800)



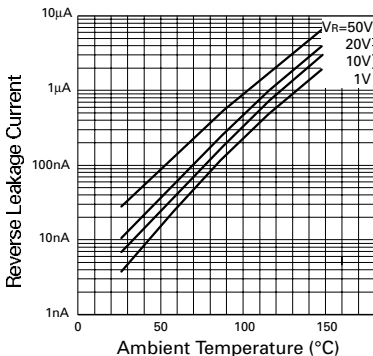
(ZMS2811)



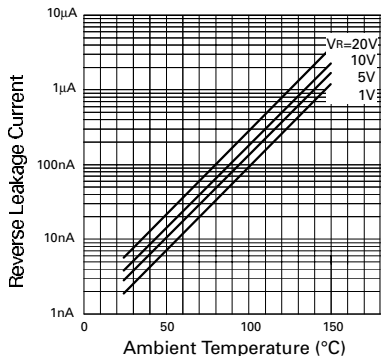
(ZMS2800 & ZMS5800)



(ZMS2811)



(ZMS2800 & ZMS5800)



(ZMS2811)