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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

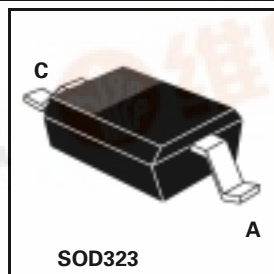
- * Mixers
- * Detectors
- * Switching

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 $T_{amb} = 25^{\circ}C$	P_{tot}	250	mW
Operating and Storage Temperature Range	$T_j:T_{stg}$	-55 to +150	$^{\circ}C$

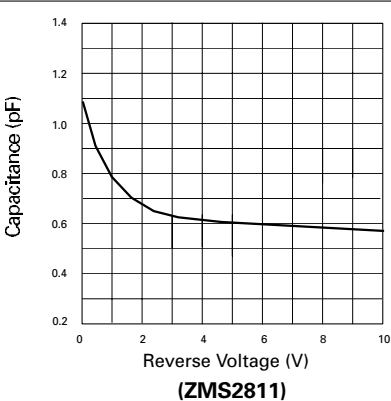
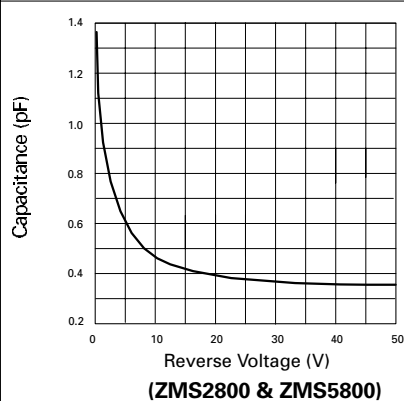
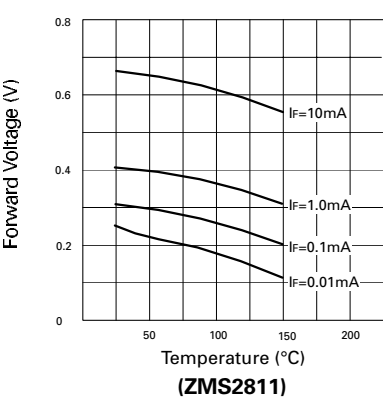
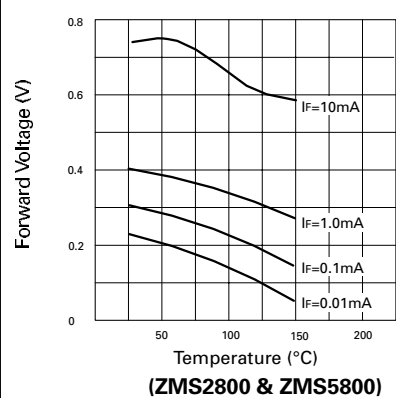
ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$).

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



ZMS2800E
ZMS2811E
ZMS5800E

TYPICAL CHARACTERISTICS



ZMS2800E
ZMS2811E
ZMS5800E

TYPICAL CHARACTERISTICS

