

SOD323 SCHOTTKY BARRIER DIODES

ZMS2800
ZMS2811
ZMS5800

ISSUE 1 – NOVEMBER 1998 Ⓢ

FEATURES

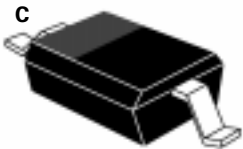
- * Miniature Surface Mount Packages
- * Low turn-on voltage
- * Pico second switching speed
- * High breakdown voltage

APPLICATIONS

- * Mixers
- * Detectors
- * Switching

PARTMARK

ZMS2800 - BA
ZMS2811 - BC
ZMS5800 - BB



SOD323

ABSOLUTE MAXIMUM RATINGS.

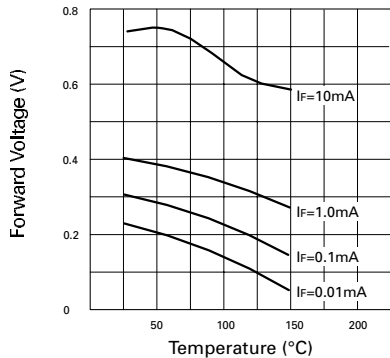
PARAMETER	SYMBOL	VALUE	UNIT
Forward Current (1μs pulse)	I_F	1	A
Power Dissipation at $T_{amb} = 25^{\circ}C$	P_{tot}	250	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^{\circ}C$

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

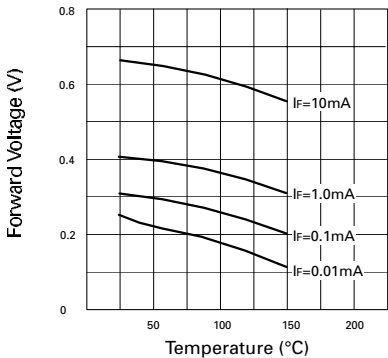
PARAMETER	TYPE	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Breakdown Voltage	ZMS2800 ZMS2811 ZMS5800	V_{BR}	70 15 50			V V V	$I_R = 10\mu A$
Reverse Leakage Current	ZMS2800 ZMS2811 ZMS5800	I_R			200 100 200	nA nA nA	$V_R = 50V$ $V_R = 10V$ $V_R = 35V$
Forward Voltage	ZMS2800 ZMS2811 ZMS5800	V_F			410 410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

ZMS2800E
ZMS2811E
ZMS5800E

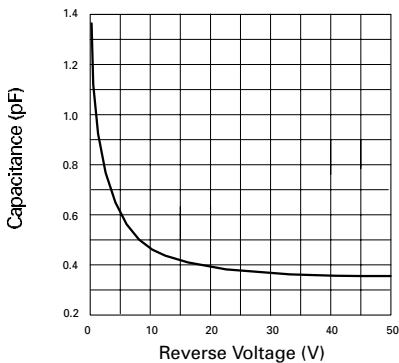
TYPICAL CHARACTERISTICS



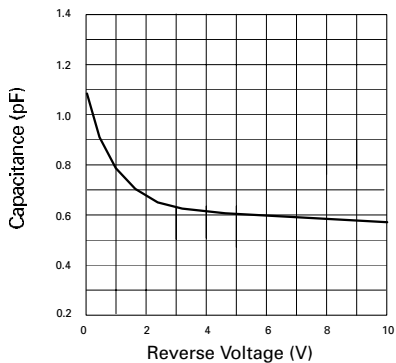
(ZMS2800 & ZMS5800)



(ZMS2811)



(ZMS2800 & ZMS5800)



(ZMS2811)

ZMS2800E
ZMS2811E
ZMS5800E

TYPICAL CHARACTERISTICS

