

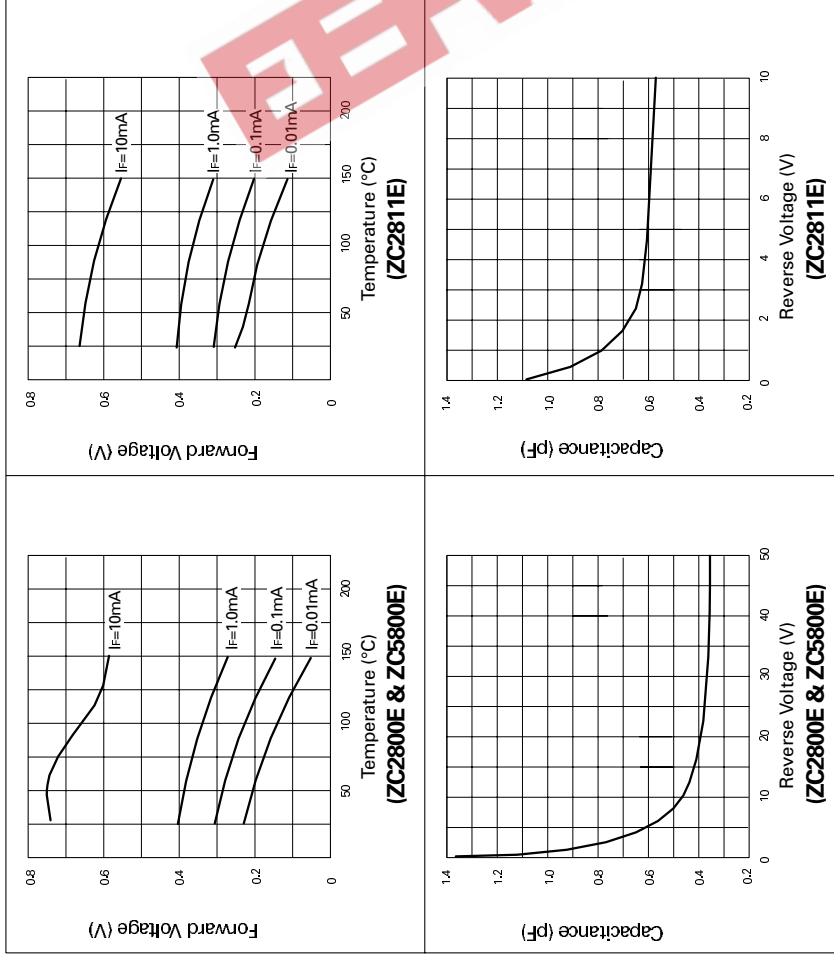
ZC2800E
ZC2811E
ZC5800E

SOT23 SCHOTTKY BARRIER DIODES

ISSUE 2 – MARCH 1995

ZC2800E
ZC2811E
ZC5800E

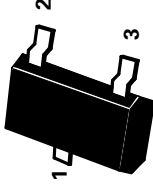
TYPICAL CHARACTERISTICS



DIODE PIN CONNECTION



PARTMARKING DETAIL
ZC2800E – E6
ZC2811E – E8
ZC5800E – E9



SOT23

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation at $T_{\text{amb}} = 25^\circ\text{C}$	P_{tot}	330	mW
Operating and Storage Temperature Range	T_j, T_{stg}	-55 to +150	$^\circ\text{C}$

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

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

(1) Sample Test.

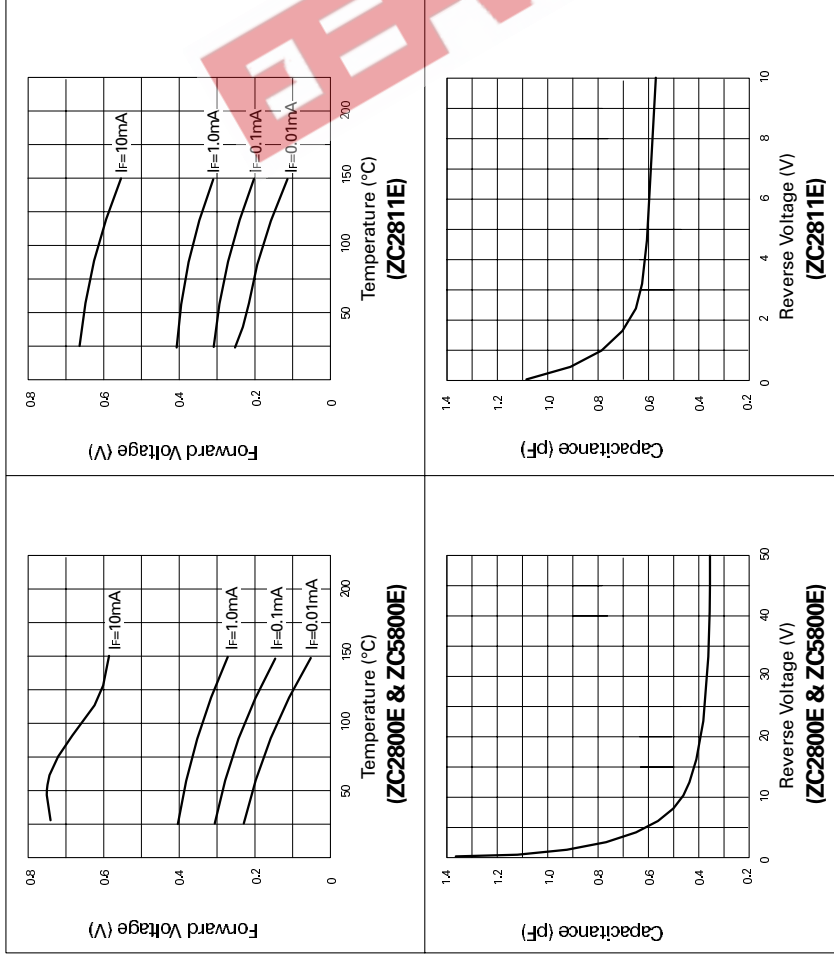
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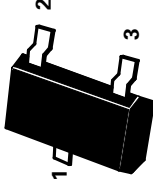
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TYPICAL CHARACTERISTICS

