

# SCHOTTKY BARRIER DIODES

ZC2800  
ZC2811  
ZC5800

ISSUE 2 - MARCH 94

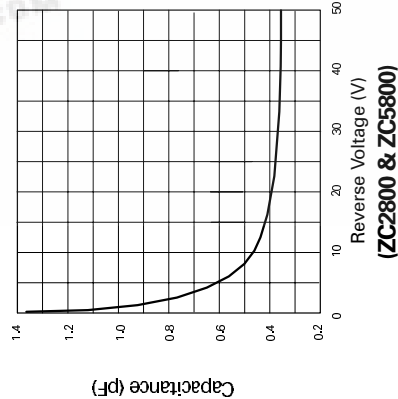
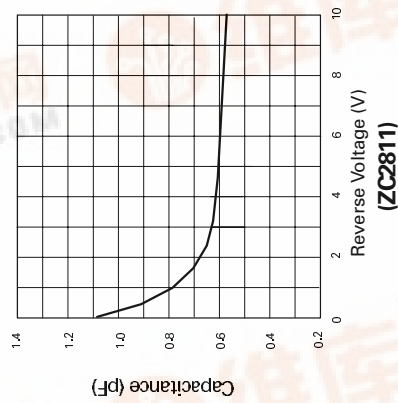
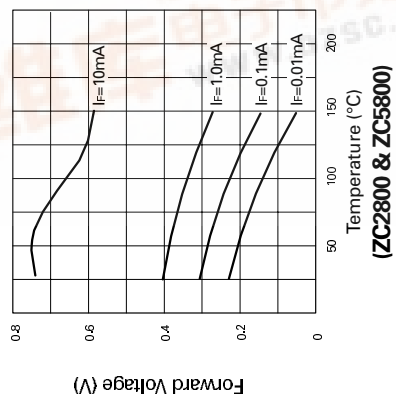
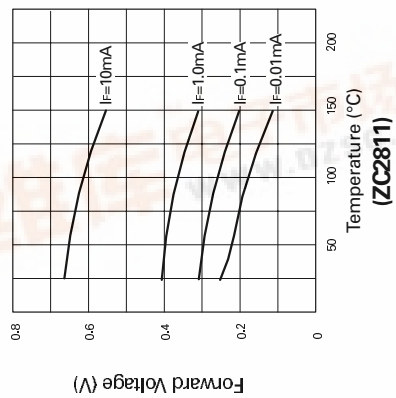
## DIODE PIN CONNECTION



E-Line  
TO92 Compatible

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## TYPICAL CHARACTERISTICS



## ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	ZC2800, ZC2811, ZC5800	UNIT
Power Dissipation at $T_{amb} = 25^{\circ}\text{C}$	$P_{tot}$	250	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +200	$^{\circ}\text{C}$

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

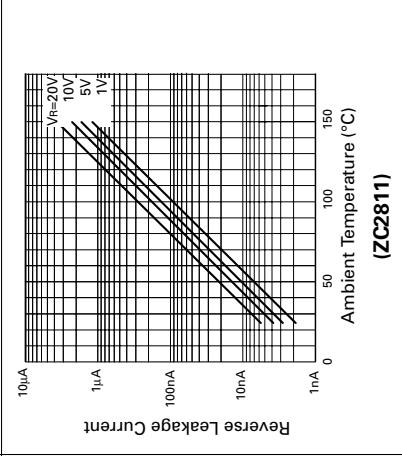
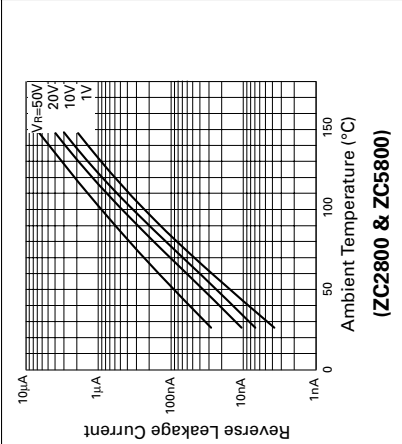
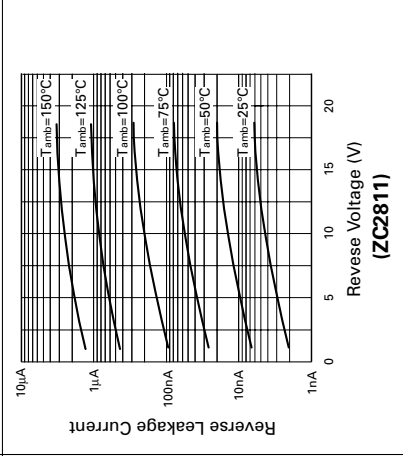
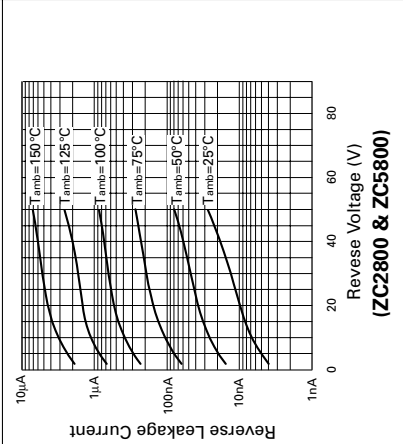
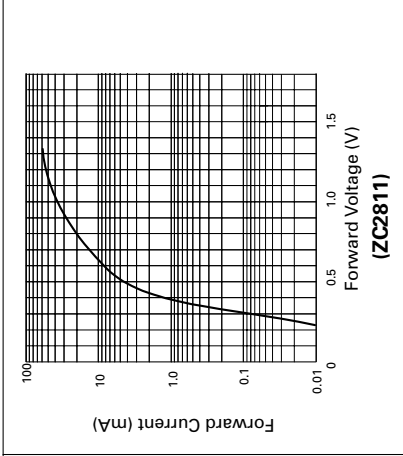
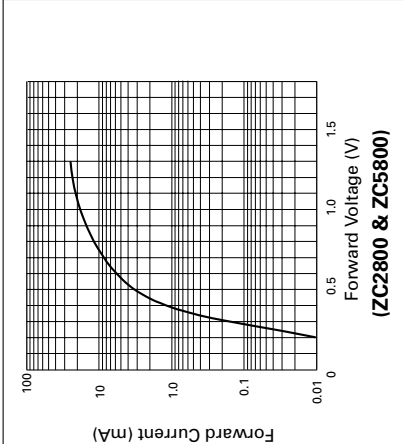
PARAMETER	TYPE	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Breakdown Voltage	ZC2800	$V_{BR}$	70			V	$I_R = 10\mu\text{A}$
	ZC2811		15			V	
	ZC5800		50			V	
Reverse Leakage Current	ZC2800	$I_R$		200		nA	$V_R = 50\text{V}$
	ZC2811			100		nA	$V_R = 10\text{V}$
	ZC5800			200		nA	$V_R = 35\text{V}$
Forward Voltage	ZC2800	$V_F$		410		mV	
	ZC2811			410		mV	
	ZC5800			410		mV	$I_F = 1\text{mA}$
Forward Current	ZC2800	$I_F$	15			mA	$V_F = 1\text{V}$
	ZC2811		20			mA	
	ZC5800		15			mA	
Capacitance	ZC2800	$C_T$	2.0			pF	$V_R = 0\text{V}, f = 1\text{MHz}$
	ZC2811		1.2			pF	
	ZC5800		2.0			pF	
Effective Minority Lifetime (1)	ZC2800	$\tau$	100			ps	$f = 54\text{MHz}$
	ZC2811		100			ps	$I_{pk} = 20\text{mA}$
	ZC5800		100			ps	

(1) Sample Test.

[捷多邦, 专业PCB打样工厂, 24小时加急出货](#)

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**TYPICAL CHARACTERISTICS**



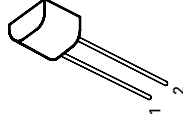
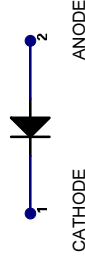
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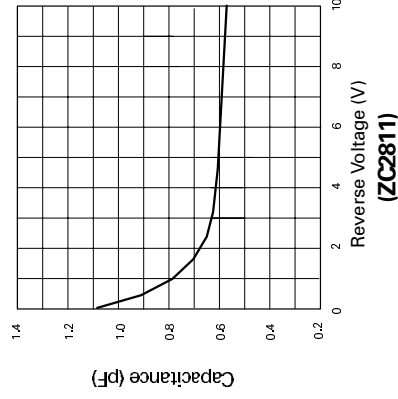
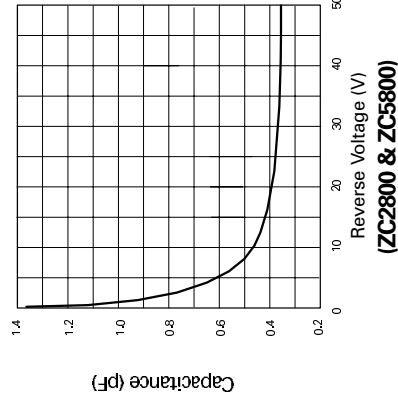
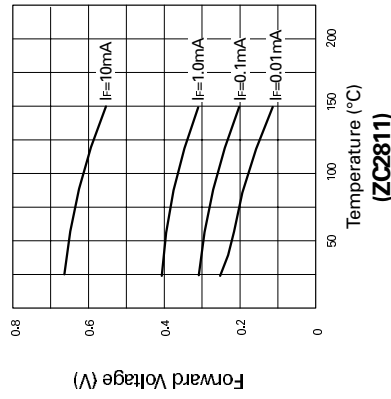
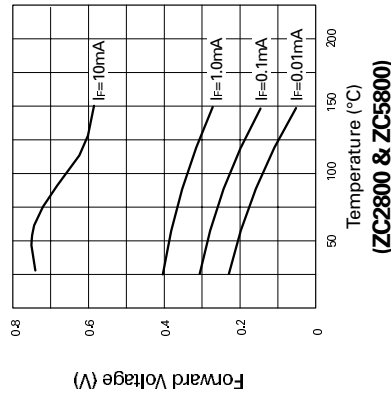
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	ZC2811		15			V	$I_R = 10\mu A$
	ZC5800		50			V	
Reverse Leakage Current	ZC2800	$I_R$			200	nA	$V_R = 50V$
	ZC2811				100	nA	$V_R = 10V$
	ZC5800				200	nA	$V_R = 35V$
Forward Voltage	ZC2800	$V_F$			410	mV	
	ZC2811				410	mV	$I_F = 1mA$
	ZC5800				410	mV	
Forward Current	ZC2800	$I_F$	15			mA	
	ZC2811		20			mA	$V_F = 1V$
	ZC5800		15			mA	
Capacitance	ZC2800	$C_T$			2.0	pF	$V_R = 0V, f = 1MHz$
	ZC2811				1.2	pF	
	ZC5800				2.0	pF	
Effective Minority Lifetime (1)	ZC2800	$\tau$			100	ps	$f = 54MHz$
	ZC2811				100	ps	$I_{pk} = 20mA$
	ZC5800				100	ps	

(1) Sample Test.