SOT23 SCHOTTKY BARRIER DIODES

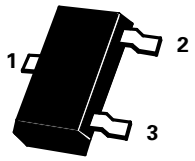
ZC2800E
ZC2811E
ZC5800E

ISSUE 2 – MARCH 1995 ✪

DIODE PIN CONNECTION



PARTMARKING DETAIL
ZC2800E – E6
ZC2811E – E8
ZC5800E – E9



SOT23

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation at T_{amb} = 25°C	P_{tot}	330	mW
Operating and Storage Temperature Range	T_j:T_{stg}	-55 to +150	°C

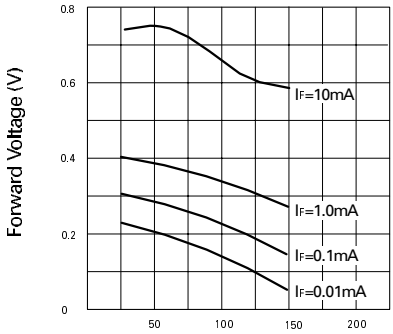
ELECTRICAL CHARACTERISTICS (at T_{amb} = 25°C).

PARAMETER	TYPE	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Breakdown Voltage	ZC2800E ZC2811E ZC5800E	V_{BR}	70 15 50			V V V	I_R=10μA
Reverse Leakage Current	ZC2800E ZC2811E ZC5800E	I_R			200 100 200	nA nA nA	V_R=50V V_R=10V V_R=35V
Forward Voltage	ZC2800E ZC2811E ZC5800E	V_F			410 410 410	mV mV mV	I_F=1mA
Forward Current	ZC2800E ZC2811E ZC5800E	I_F	15 20 15			mA mA mA	V_F=1V
Capacitance	ZC2800E ZC2811E ZC5800E	C_T			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

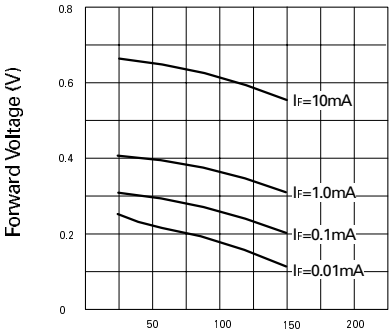
(1) Sample Test.

ZC2800E
ZC2811E
ZC5800E

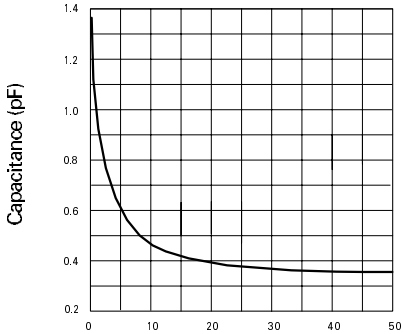
TYPICAL CHARACTERISTICS



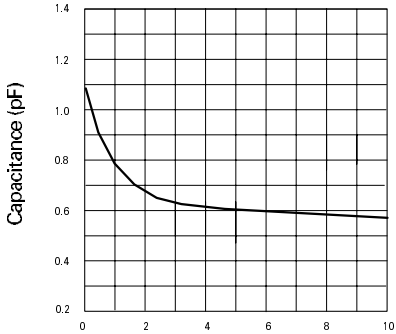
(ZC2800E & ZC5800E)



(ZC2811E)

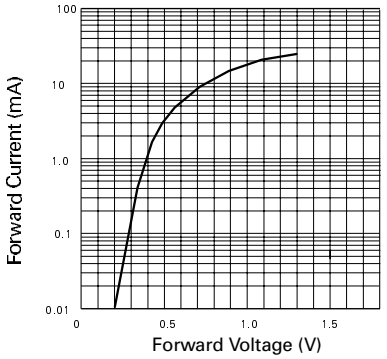


(ZC2800E & ZC5800E)

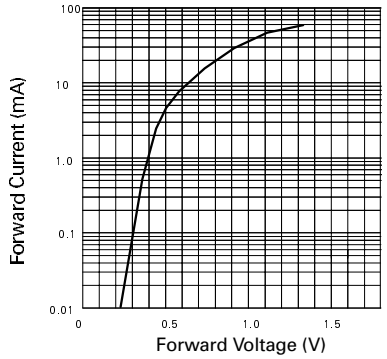


(ZC2811E)

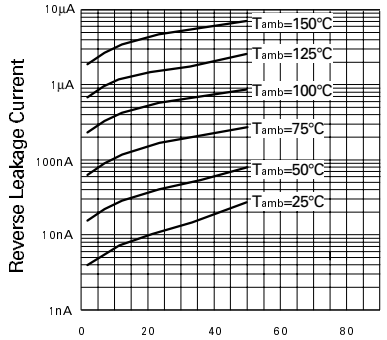
TYPICAL CHARACTERISTICS



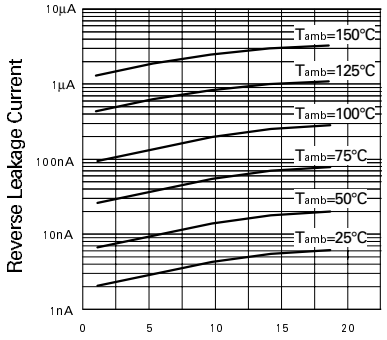
(ZC2800E & ZC5800E)



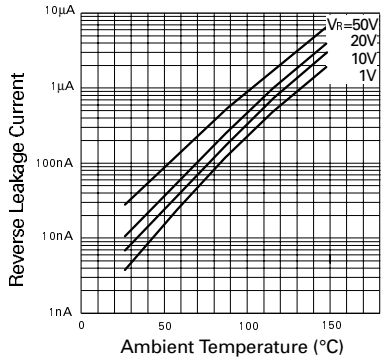
(ZC2811E)



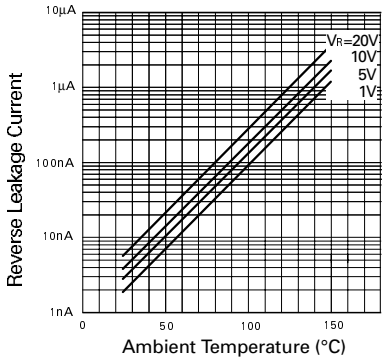
(ZC2800E & ZC5800E)



(ZC2811E)



(ZC2800E & ZC5800E)



(ZC2811E)