

CONSTANT VOLTAGE REGULATION APPLICATION.
REFERENCE VOLTAGE APPLICATION.

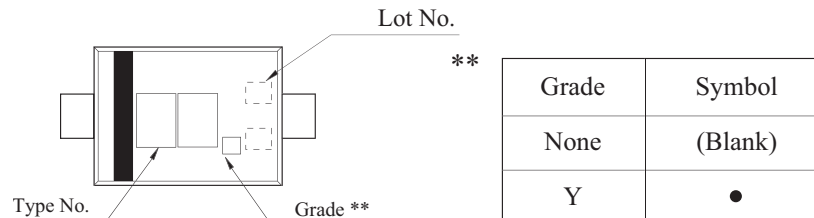
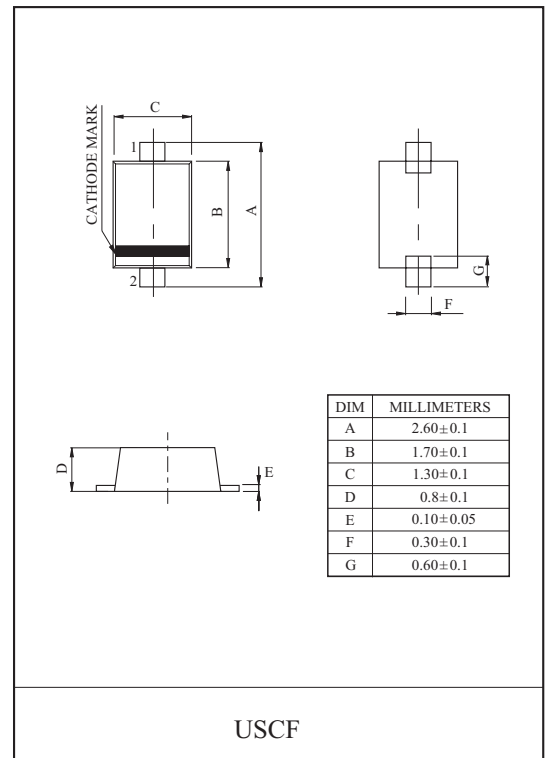
FEATURES

- Small Package : USCF
- Zener Voltage Tolerance
 - None Grade : About $\pm 6\%$.
 - Y Grade : About $\pm 2.5\%$.

MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P_D^*	500	mW
Junction Temperature	T_j	150	
Operating Temperature	T_{opr}	-55 150	
Storage Temperature Range	T_{stg}	-55 150	

* Mounted on a glass epoxy circuit board of 1 × 1 inch.



Type No.	Marking	Type No.	Marking	Type No.	Marking	Type No.	Marking
USCFZ2.0V	2A	USCFZ4.3V	43	USCFZ9.1V	91	USCFZ20V	20
USCFZ2.2V	2B	USCFZ4.7V	47	USCFZ10V	10	USCFZ22V	22
USCFZ2.4V	2C	USCFZ5.1V	51	USCFZ11V	11	USCFZ24V	24
USCFZ2.7V	2D	USCFZ5.6V	56	USCFZ12V	12	USCFZ27V	A1
USCFZ3.0V	30	USCFZ6.2V	62	USCFZ13V	13	USCFZ30V	A2
USCFZ3.3V	33	USCFZ6.8V	68	USCFZ15V	15	USCFZ33V	A3
USCFZ3.6V	36	USCFZ7.5V	75	USCFZ16V	16	USCFZ36V	A4
USCFZ3.9V	39	USCFZ8.2V	82	USCFZ18V	18	-	-

USCFZ2.0V~36V

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

TYPE No.	Grade	Zener Voltage Vz (V)			Dynamic Impedance Zz (Ω)		KNEE Dynamic Impedance Zzk (Ω)		Reverse Current IR (μA)	
		Min.	Max.	Iz (mA)	MAX.	Iz (mA)	MAX.	Iz (mA)	MAX.	VR(V)
USCFZ2.0V	-	1.85	2.15	5	100	5	1000	0.5	120	1.0
	Y	1.95	2.15							
USCFZ2.2V	-	2.05	2.38	5	100	5	1000	0.5	120	1.0
	Y	2.16	2.38							
USCFZ2.4V	-	2.28	2.60	5	100	5	1000	0.5	120	1.0
	Y	2.40	2.60							
USCFZ2.7V	-	2.50	2.90	5	110	5	1000	0.5	120	1.0
	Y	2.65	2.90							
USCFZ3.0V	-	2.80	3.20	5	120	5	1000	0.5	50	1.0
	Y	2.95	3.20							
USCFZ3.3V	-	3.10	3.50	5	130	5	1000	0.5	20	1.0
	Y	3.25	3.50							
USCFZ3.6V	-	3.40	3.80	5	130	5	1000	0.5	10	1.0
	Y	3.60	3.845							
USCFZ3.9V	-	3.70	4.10	5	130	5	1000	0.5	10	1.0
	Y	3.890	4.160							
USCFZ4.3V	-	4.00	4.50	5	130	5	1000	0.5	5	1.0
	Y	4.170	4.430							
USCFZ4.7V	-	4.40	4.90	5	120	5	1000	0.5	5	1.0
	Y	4.550	4.750							
USCFZ5.1V	-	4.80	5.40	5	70	5	1000	0.5	1	1.5
	Y	4.980	5.200							
USCFZ5.6V	-	5.30	6.00	5	40	5	900	0.5	1	2.5
	Y	5.490	5.730							
USCFZ6.2V	-	5.80	6.60	5	30	5	500	0.5	1	3.0
	Y	6.060	6.330							
USCFZ6.8V	-	6.40	7.20	5	25	5	150	0.5	0.5	5.0
	Y	6.650	6.930							
USCFZ7.5V	-	7.00	7.90	5	23	5	120	0.5	0.5	6.0
	Y	7.280	7.600							
USCFZ8.2V	-	7.70	8.70	5	20	5	120	0.5	0.5	6.5
	Y	8.020	8.360							
USCFZ9.1V	-	8.50	9.60	5	18	5	120	0.5	0.5	7.0
	Y	8.850	9.230							
USCFZ10V	-	9.40	10.60	5	15	5	120	0.5	0.5	8.0
	Y	9.770	10.210							

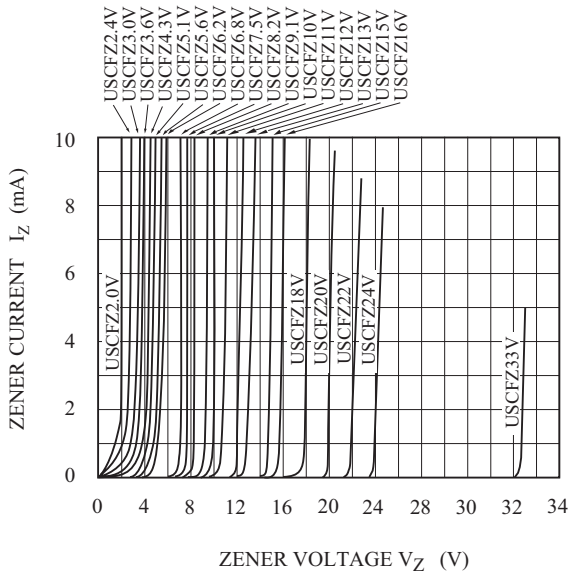
USCFZ2.0V~36V

ELECTRICAL CHARACTERISTICS (Continuous, Ta=25)

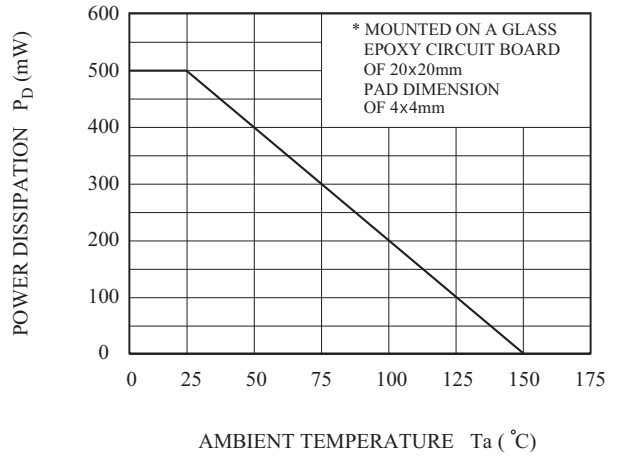
TYPE No.	Grade	Zener Voltage Vz (V)			Dynamic Impedance Zz ()		KNEE Dynamic Impedance Zzk ()		Reverse Current Ir (μA)	
		Min.	Max.	Iz (mA)	MAX.	Iz (mA)	MAX.	Iz (mA)	MAX.	V _R (V)
USCFZ11V	-	10.40	11.60	5	15	5	120	0.5	0.5	8.5
	Y	10.760	11.220							
USCFZ12V	-	11.40	12.60	5	15	5	110	0.5	0.5	9.0
	Y	11.740	12.240							
USCFZ13V	-	12.40	14.10	5	15	5	110	0.5	0.5	10
	Y	12.910	13.490							
USCFZ15V	-	13.80	15.60	5	15	5	110	0.5	0.5	11
	Y	14.340	14.980							
USCFZ16V	-	15.30	17.10	5	18	5	150	0.5	0.5	12
	Y	15.850	16.510							
USCFZ18V	-	16.80	19.10	5	20	5	150	0.5	0.5	14
	Y	17.560	18.350							
USCFZ20V	-	18.80	21.20	5	25	5	200	0.5	0.5	15
	Y	19.520	20.390							
USCFZ22V	-	20.80	23.30	5	30	5	200	0.5	0.5	17
	Y	21.540	22.470							
USCFZ24V	-	22.80	25.60	5	40	5	200	0.5	0.5	19
	Y	23.720	24.780							
USCFZ27V	-	26.19	27.53	2	150	2	150	0.5	0.1	21
USCFZ30V	-	29.19	30.69		200		200			23
USCFZ33V	-	32.15	33.79		250		250			25
USCFZ36V	-	35.07	36.87		300		300			27

USCFZ2.0V~36V

$I_Z - V_Z$



$P_D - T_a$



$\gamma_Z - V_Z$

