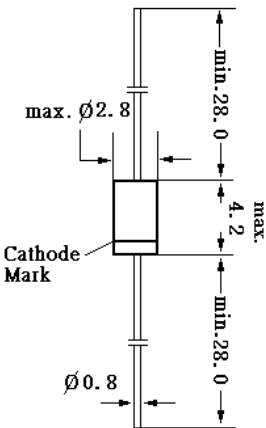


ZE1.3C ...

SILICON PLANAR POWER ZENER DIODES

for use in stabilizing and clipping circuits with high power rating. The Zener voltages are graded according to the international E24 standard. Other tolerance and higher Zener voltages are upon request.



Dimensions in mm

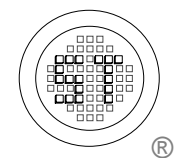
DO-41 Plastic Package

Absolute Maximum Ratings (T_a = 25°C)

	Symbol	Value	Unit
Zener Current see Table “Characteristics”			
Power Dissipation	P _{tot}	1.3 ¹⁾	W
Junction Temperature	T _j	200	°C
Storage Temperature Range	T _s	-55 to +200	°C

Characteristics at T_{amb} = 25°C

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R _{thA}	-	-	130 ¹⁾	K/W
Forward Voltage at I _F = 200mA	V _F	-	-	1	V



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(Subsidiary of Semtech International Holdings Limited, acompany
listed on the Hong Kong Stock Exchange, Stock Code: 724)

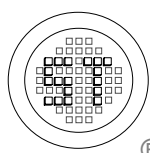


ZE1.3C ...

Type	Zener Voltage Range ²⁾			Dynamic Resistance			Reverse Leakage Current		Temp coefficient of Zener Voltage TKvz %/K
	V _{znom} V	I _{zT} mA	for V _{zT} V	r _{zIT} Ω	r _{zIK} Ω	at mA	I _R μA	at V	
ZE 1.3C 2V7	2.7	80	2.5...2.9	<20	<400	1	<150	1	-0.08...-0.05
ZE 1.3C 3V0	3.0	80	2.8...3.2	<20	<400	1	<100	1	-0.08...-0.05
ZE 1.3C 3V3	3.3	70	3.1...3.5	<20	<400	1	<40	1	-0.08...-0.05
ZE 1.3C 3V6	3.6	60	3.4...3.8	<15	<500	1	<20	1	-0.08...-0.05
ZE 1.3C 3V9	3.9	60	3.7...4.1	<15	<500	1	<10	1	-0.07...-0.02
ZE 1.3C 4V3	4.3	50	4.0...4.6	<13	<500	1	<3	1	-0.07...+0.01
ZE 1.3C 4V7	4.7	45	4.4...5.0	<13	<600	1	<3	1	-0.03...+0.04
ZE 1.3C 5V1	5.1	45	4.8...5.4	<10	<500	1	<1	1.5	-0.01...+0.04
ZE 1.3C 5V6	5.6	45	5.2...6.0	<7	<400	1	<1	2	0...+0.045
ZE 1.3C 6V2	6.2	35	5.8...6.6	<4	<300	1	<1	3	+0.01...+0.055
ZE 1.3C 6V8	6.8	35	6.4...7.2	<3.5	<300	1	<1	4	+0.015...+0.06
ZE 1.3C 7V5	7.5	35	7.0...7.9	<3	<200	0.5	<1	4.5	+0.02...+0.065
ZE 1.3C 8V2	8.2	25	7.7...8.7	<5	<200	0.5	<1	6.2	0.03...0.07
ZE 1.3C 9V1	9.1	25	8.5...9.6	<5	<200	0.5	<1	6.8	0.035...0.075
ZE 1.3C 10	10	25	9.4...10.6	<7	<200	0.5	<0.5	7	0.04...0.08
ZE 1.3C 11	11	20	10.4...11.6	<8	<300	0.5	<0.5	8.2	0.045...0.08
ZE 1.3C 12	12	20	11.4...12.7	<9	<350	0.5	<0.5	9.1	0.045...0.085
ZE 1.3C 13	13	20	12.4...14.1	<10	<400	0.5	<0.5	10	0.05...0.085
ZE 1.3C 15	15	15	13.8...15.6	<15	<500	0.5	<0.5	11	0.055...0.09
ZE 1.3C 16	16	15	15.3...17.1	<15	<500	0.5	<0.5	12	0.055...0.09
ZE 1.3C 18	18	15	16.8...19.1	<20	<500	0.5	<0.5	13	0.06...0.09
ZE 1.3C 20	20	10	18.8...21.2	<24	<600	0.5	<0.5	15	0.06...0.09
ZE 1.3C 22	22	10	20.8...23.3	<25	<600	0.5	<0.5	16	0.06...0.095
ZE 1.3C 24	24	10	22.8...25.6	<25	<600	0.5	<0.5	18	0.06...0.095
ZE 1.3C 27	27	8	25.1...28.9	<30	<750	0.25	<0.5	20	0.06...0.095
ZE 1.3C 30	30	8	28...32	<30	<1000	0.25	<0.5	22	0.06...0.095
ZE 1.3C 33	33	8	31...35	<35	<1000	0.25	<0.5	24	0.06...0.095
ZE 1.3C 36	36	8	34...38	<40	<1000	0.25	<0.5	27	0.06...0.095
ZE 1.3C 39	39	6	37...41	<50	<1000	0.25	<0.5	30	0.06...0.095
ZE 1.3C 43	43	6	40...46	<50	<1000	0.25	<0.5	33	0.06...0.095
ZE 1.3C 47	47	4	44...50	<90	<1500	0.25	<0.5	36	0.06...0.095
ZE 1.3C 51	51	4	48...54	<115	<1500	0.25	<0.5	39	0.06...0.095
ZE 1.3C 56	56	4	52...60	<120	<2000	0.25	<0.5	43	0.06...0.095
ZE 1.3C 62	62	4	58...66	<125	<2000	0.25	<0.5	47	0.06...0.095
ZE 1.3C 68	68	4	64...72	<130	<2000	0.25	<0.5	51	0.06...0.095
ZE 1.3C 75	75	4	70...79	<135	<2000	0.25	<0.5	56	0.06...0.095
ZE 1.3C 82	82	2.7	77...87	<200	<3000	0.25	<0.5	62	0.07...0.10
ZE 1.3C 91	91	2.7	85...96	<250	<3000	0.25	<0.5	68	0.07...0.10
ZE 1.3C 100	100	2.7	94...106	<350	<3000	0.25	<0.5	75	0.07...0.11
ZE 1.3C 110	110	2.7	104...116	<450	<4000	0.25	<0.5	82	0.07...0.11
ZE 1.3C 120	120	2	114...127	<550	<4500	0.25	<0.5	91	0.07...0.11
ZE 1.3C 130	130	2	124...141	<700	<5000	0.25	<0.5	100	0.07...0.11
ZE 1.3C 150	150	2	138...156	<1000	<6000	0.25	<0.5	110	0.07...0.11
ZE 1.3C 160	160	1.5	153...171	<1100	<6500	0.25	<0.5	120	0.07...0.11
ZE 1.3C 180	180	1.5	168...191	<1200	<7000	0.25	<0.5	130	0.07...0.11
ZE 1.3C 200	200	1.5	188...212	<1500	<8000	0.25	<0.5	150	0.07...0.11

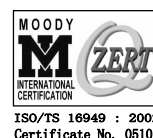
1) Valid provided that leads are kept at ambient temperature at a distance of 8mm from case.

2) Tested with pulses t_p = 20 ms.



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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 950-199-04-002-04

Dated : 20/06/2003