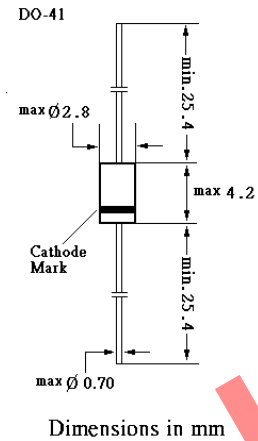


ZE2C...

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.



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation ($T_a = 60^\circ\text{C}$)	P_{tot}	2 ¹⁾	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	$^\circ\text{C}$

¹⁾ Valid provided that leads at a distance of 3/8" from case are kept at ambient temperature.

Characteristics at $T_a = 25^\circ\text{C}$

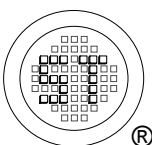
Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	60 ¹⁾	K/W

¹⁾ Valid provided that leads at a distance of 3/8" from case are kept at ambient temperature.

Characteristics at $T_a = 25^\circ\text{C}$

Type	Zener Voltage ¹⁾		Dynamic Resistance		Temp coefficient of Zener Voltage	Reverse Leakage Current		Maximum Surge Current
	V_{ZT}	at I_{ZT}	Z_{ZT}	at I_{ZT}	TKvz	I_R	at V_R	at $t_p = 10\text{ ms}$
	(V)	(mA)	Max. (Ω)	(mA)	%/K	Max. (μA)	(V)	I_{ZSM} (A)
ZE2C100	94...106	5	200	5	0.08...0.13	1	50	0.15
ZE2C110	104...116	5	250	5	0.08...0.13	1	50	0.13
ZE2C120	114...127	5	250	5	0.08...0.13	1	60	0.12
ZE2C130	124...141	5	300	5	0.08...0.13	1	60	0.11
ZE2C150	138...156	5	300	5	0.08...0.13	1	75	0.10
ZE2C160	153...171	5	350	5	0.08...0.13	1	75	0.09
ZE2C180	168...191	5	350	5	0.08...0.13	1	90	0.08
ZE2C200	188...212	5	350	5	0.08...0.13	1	90	0.07

¹⁾ Tested with pulses $t_p = 20\text{ ms}$.

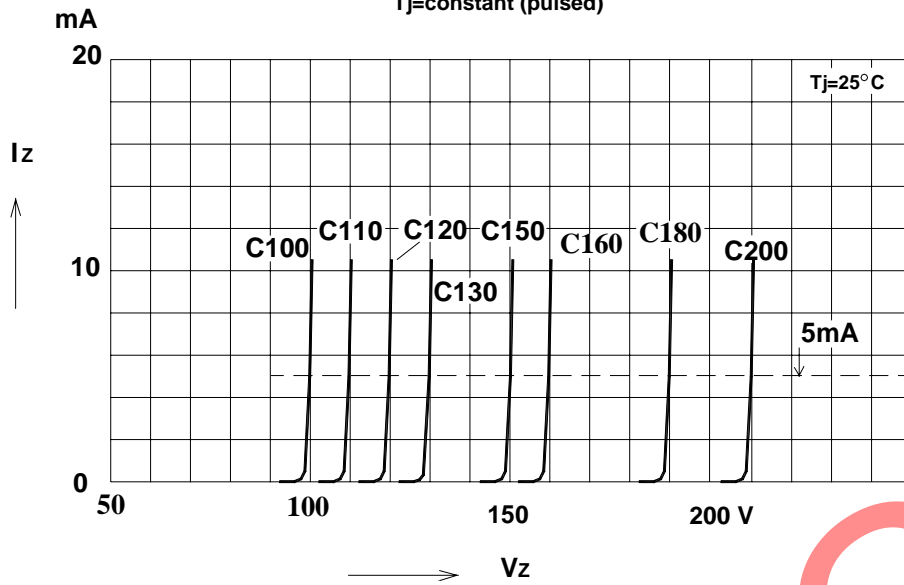


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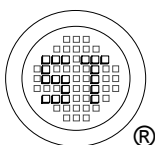
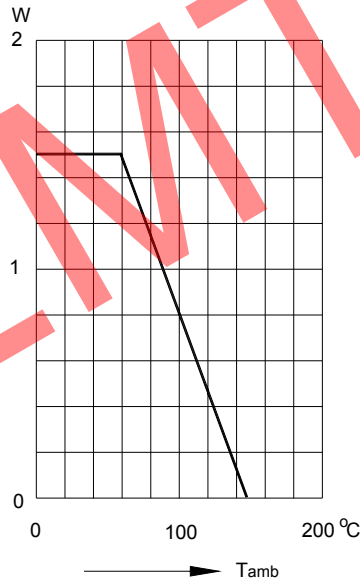


Dated : 23/12/2003

Breakdown characteristics
 $T_j = \text{constant (pulsed)}$



Admissible power dissipation versus ambient temperature
 Valid provided that leads are kept at ambient temperature at a distance of 3/8" mm from case



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