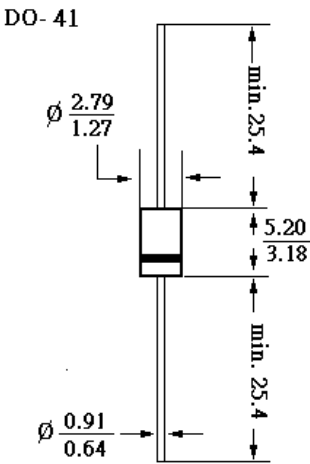


SILICON PLANAR POWER ZENER DIODES

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 upon request.



Dimensions in mm

Absolute Maximum Ratings (T_a = 25°C)

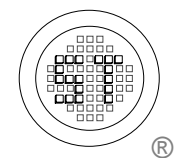
	Symbol	Value	Unit
Zener Current see Table “Characteristics”			
Power Dissipation at Ta=60°C	P _{tot}	1.5 ¹⁾	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _s	-55 to + 150	°C

Characteristics at T_{amb} = 25°C

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R _{thA}	-	-	60 ¹⁾	K/W

Note:

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



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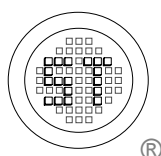


ZE1.5C ...

Characteristics

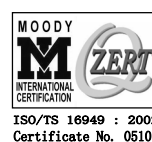
Type	Zener Voltage Range ¹⁾		Dynamic Resistance $r_{ZJ} \text{ (max)}$ Ω	Temp coefficient of Zener Voltage TKvz %/K	Reverse Leakage Current at		I_{ZSM} $t_p=10 \text{ ms}$ A
	V_{ZT}	I_{ZT}			I_R		
	V	mA			V_R μA	V	
ZE 1.5C 100	94...106	5	200	0.08...0.13	1	50	0.15
ZE 1.5C 110	104...116	5	250	0.08...0.13	1	50	0.13
ZE 1.5C 120	114...127	5	250	0.08...0.13	1	60	0.12
ZE 1.5C 130	124...141	5	300	0.08...0.13	1	60	0.11
ZE 1.5C 150	138...156	5	300	0.08...0.13	1	75	0.10
ZE 1.5C 160	153...171	5	350	0.08...0.13	1	75	0.09
ZE 1.5C 180	168...191	5	350	0.08...0.13	1	90	0.08
ZE 1.5C 200	188...212	5	350	0.08...0.13	1	90	0.07

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



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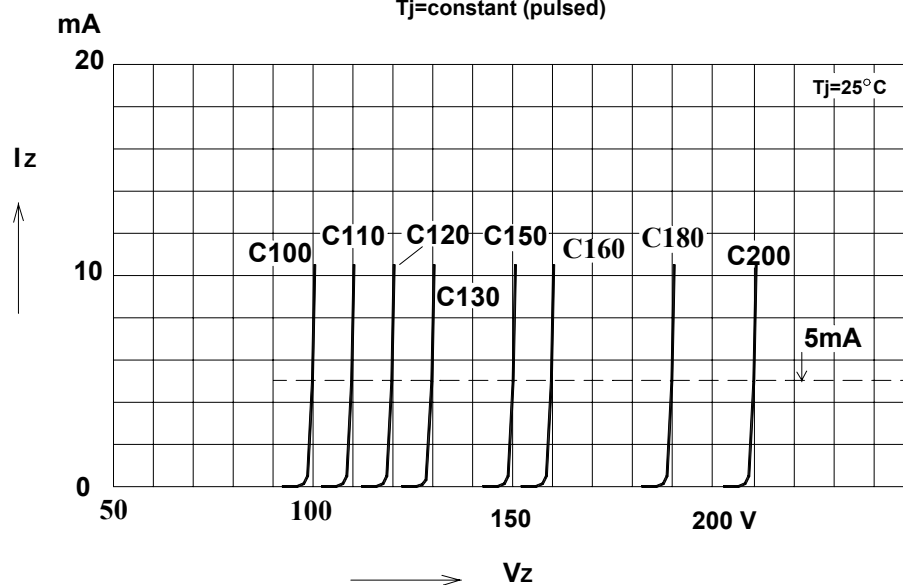
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Dated : 03/01/2003

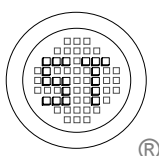
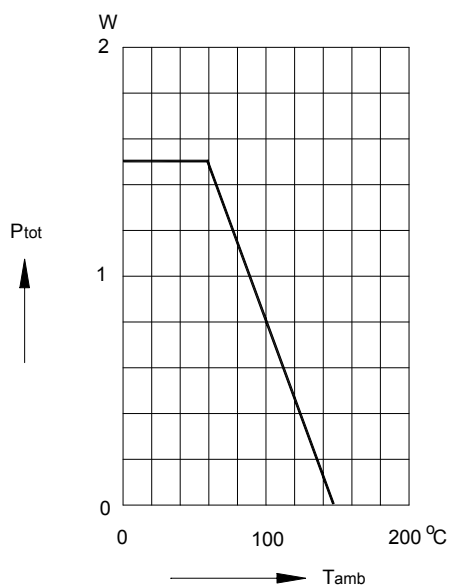
Breakdown characteristics

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



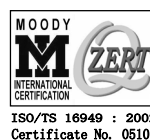
Admissible power dissipation versus ambient temperature

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



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