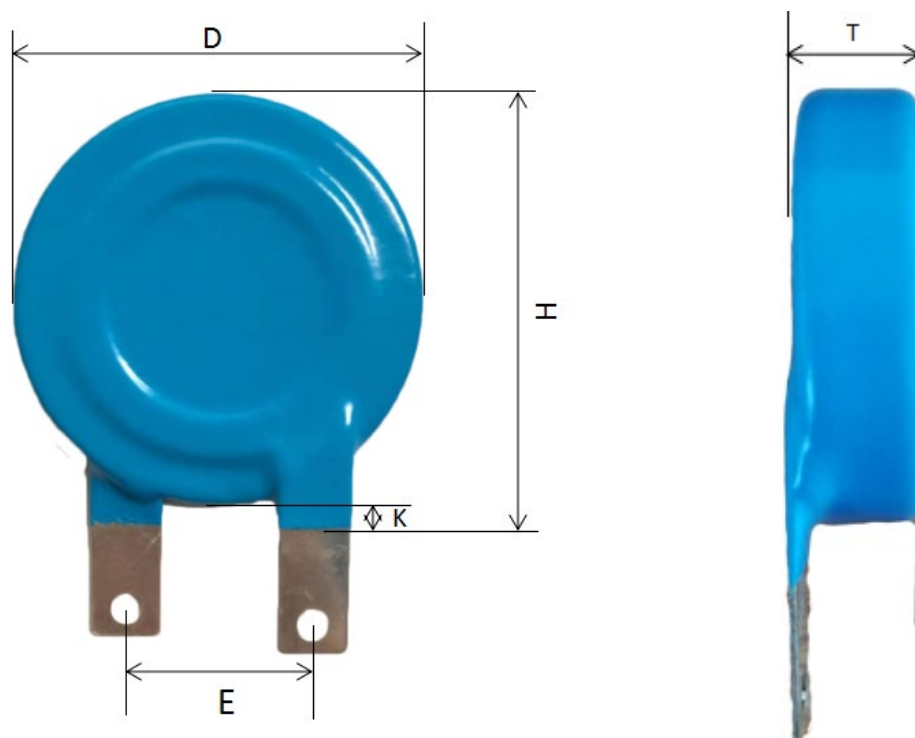


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MOV



Technical Features

Part No.	MDE-40D222K
Maximum Allowable AC Voltage	1400V
Maximum Allowable DC Voltage	1750V
Maximum voltage protection level	<6kV@20kA
Varistor Voltage	2025~2420 V1mA
Maximum DC Leakage Current	$\leq 10 \mu\text{A}$
Nonlinear exponent α	≥ 25
Max. discharge current(8/20) I_{max} x 1 time	40kA
D(Max)	45mm
H(Max)	48mm
E	$25.4 \pm 0.5\text{mm}$
T(Max)	13mm
K(Max)	3.2mm

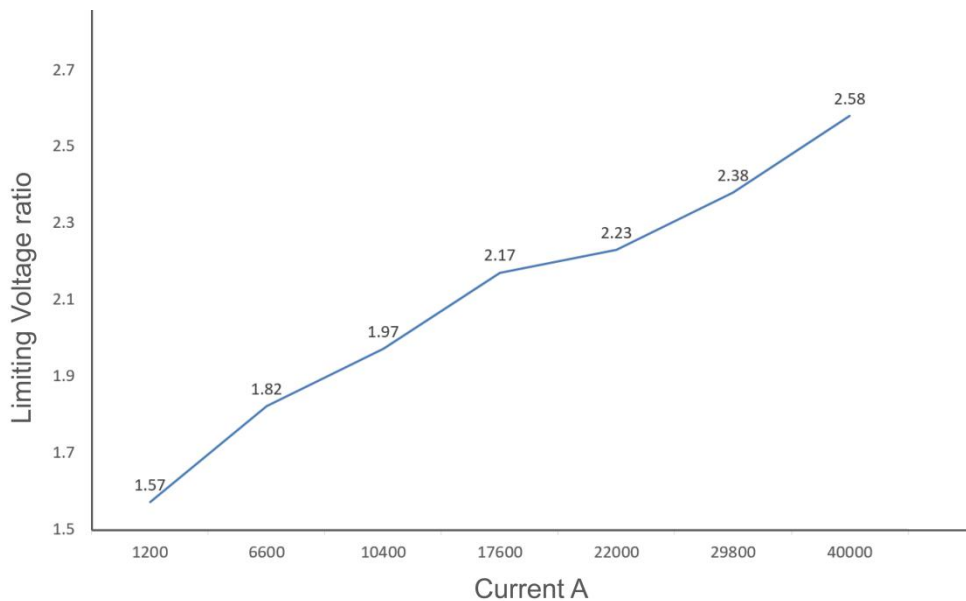
Packing method

25pcs/box 8box/carton

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MDE-40D222 K 8/20 Limiting Voltage ratio curves

Measured value		Calculated value				
Current A I, A	Clamp V U, V	R=U/I Ω	Log R	Log I	$(\log I)^2$	(Clamp Voltage/Vima) U/2053
1200	3229	2.6908	0.4299	3.0792	9.4814	1.57
6600	3729	0.5650	-0.2480	3.8195	14.5889	1.82
10400	4036	0.3881	-0.4111	4.0170	16.1366	1.97
17600	4459	0.2534	-0.5963	4.2455	18.0244	2.17
22000	4574	0.2079	-0.6821	4.3424	18.8566	2.23
29800	4882	0.1638	-0.7856	4.4742	20.0186	2.38
40000	5304	0.1326	-0.8775	4.6021	21.1790	2.58



$$U = I_R = U_R * I^B = 10^A * I^B = 201349.25 I^B$$

$$B = 1 + A1 + A2 \lg I$$