



**Maximum ratings** ( $T_A = 85\text{ °C}$  for CU;  $T_A = 125\text{ °C}$  for CN)

Type	Ordering code	Operating voltage		Surge current $i_{\max}$ 8/20 $\mu$ s A	Energy absorption $W_{\max}$ (2 ms) J	Power dissipation $P_{\max}$ W	Load dump $W_{LD}$ (10 $\times$ ) J
		$V_{RMS}$ V	$V_{DC}$ V				
SIOV-							
12-V supply systems							
CN1210S14BAUTOG	Q69530-V1140-S262	14	16	250	0.8	0.01	3
CN1812S14BAUTOG	Q69580-V1140-S262	14	16	500	1.7	0.015	6
CN2220S14BAUTOG	Q69540-V1140-S262	14	16	1000	3.6	0.03	12
CU3225K14AUTOG	Q69650-M1140-K62	14	16	100	0.4	0.01	6
CU4032K14AUTOG	Q69660-M1140-K62	14	16	250	0.9	0.02	12
CU3225K17AUTOG	Q69650-M1170-K62	17	20	100	0.5	0.01	6
CU4032K17AUTOG	Q69660-M1170-K62	17	20	250	1.1	0.02	12
24-V supply systems							
CU3225K30AUTOG	Q69650-M1300-K62	30	34	100	0.9	0.01	6
CU4032K30AUTOG	Q69660-M1300-K62	30	34	250	2.0	0.02	12

**Notes**

- If the maximum loads specified for load dump and jump start are fully utilized, subsequent polarity reversal of the AUTO varistors is inadmissible.
- If the load remains under the maximum ratings, polarity reversal may be admissible. Contact S+M Components for consultancy on this kind of problem.
- Load dump or jump start can decrease the varistor voltage in load direction by max. 15% .
- Load dump: min. time of energy input 30 ms, interval 60 s.

### Characteristics ( $T_A = 25\text{ °C}$ )

Jump start  $V_{\text{JUMP}}$ (max. 5 minutes) V	Varistor voltage  $V_V$ (1 mA) V	Tolerance  $\Delta V_V$ (1 mA) %	Max. clamp- ing voltage		Capaci- tance, typ.  $C$ (1 kHz) nF	Derating curves  Page	V/I cha- racteristic  Page
			$v$ V	$i$ A			
24.5	22 ... 27	SB <sup>1)</sup> = + 23/-0	40	2.5	1.7	80	83
24.5	22 ... 27	SB <sup>1)</sup> = + 23/-0	40	5	5.6	82	84
24.5	22 ... 27	SB <sup>1)</sup> = + 23/-0	40	10	9.5	82	84
25	22	K = ± 10	43	1.0	1.3	80	83
25	22	K = ± 10	43	2.5	2.5	80	84
30	27	K = ± 10	53	1.0	1.1	80	83
30	27	K = ± 10	53	2.5	1.9	80	84
50	47	K = ± 10	93	1.0	0.6	80	83
50	47	K = ± 10	93	2.5	1.1	80	84

<sup>1)</sup> Special tolerance "B", here 22 ... 27 V