

Features

¥ Over voltage testing (UL 1459, CSA-22.2 No.225-M90) and surge protection for telephone lines (telephone, modem, facsimile etc.)

Part Number System

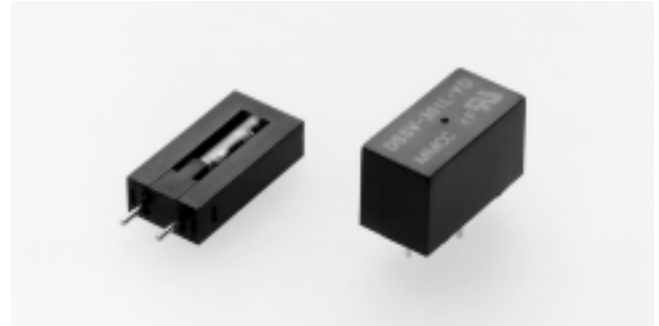
DSSV - **301**
Series DC Spark-over voltage (Vs)

The first two digits are significant, and the third is number of zeros.

L - **YD**
DC Spark-over voltage tolerance Shape

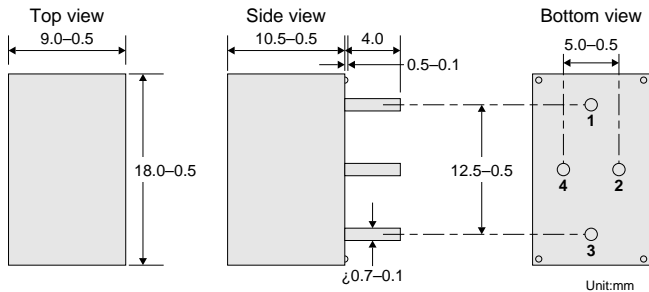
L	-15%
M	-20%

YD	4 Terminal
T5	2 Terminal

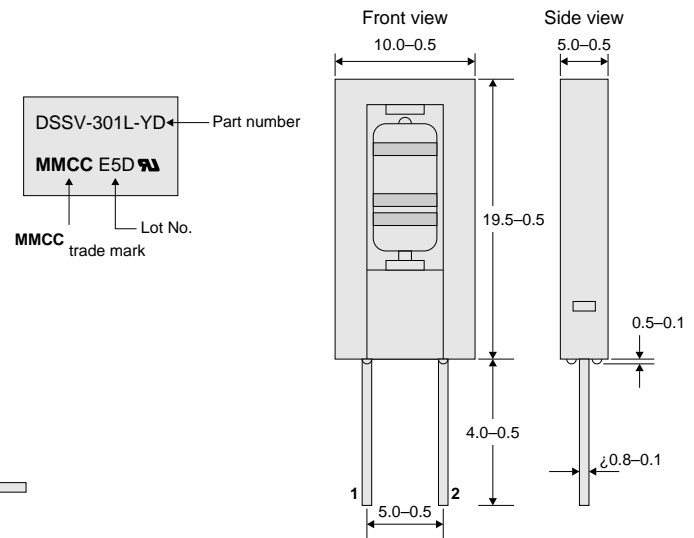


Dimensions

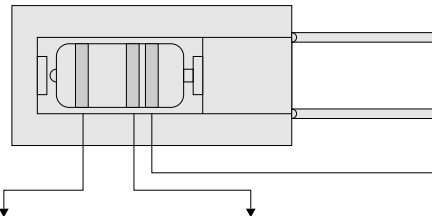
DSSV-YD Type



DSSV-T5 Type



Marking



Color code	First color band	Second color band	Third color band
	Part number	Lot No. (ten's digit)	Lot No. (unit's digit)
Black		0	0
Brown		1	1
Red		2	2
Orange	301L	3	3
Yellow	401M	4	4
Green		5	5
Blue		6	6
Purple		7	7
Gray		8	8
White		9	9

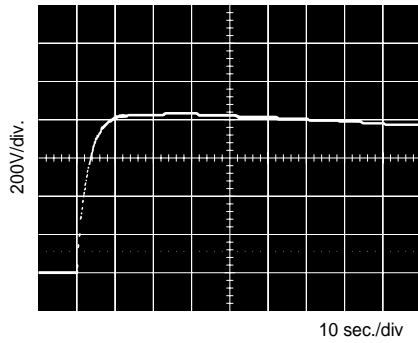
Characteristics

Series	Part number	DC spark-over voltage Vs	Insulation resistance IR		Electrostatic capacitance 1kHz-6V max. C	Surge current capacity 8/20 sec.	Surge life test	UL Recognized
								UL 497A 3)
DSSV	DSSV-201M-YD	200V(160-240)	100M%min.	DC 100V	2pF max.	400A	FCC cycle 1)	-
	DSSV-301L-YD	300V(255-345)						-
	DSSV-401M-YD	400V(320-480)						-
	DSSV-301L-T5	300V(255-345)						-
	DSSV-401M-T5	400V(320-480)						-
				DC 250V			DOC 1cycle 2)	-
				DC 100V				-
				DC 250V		300A		-

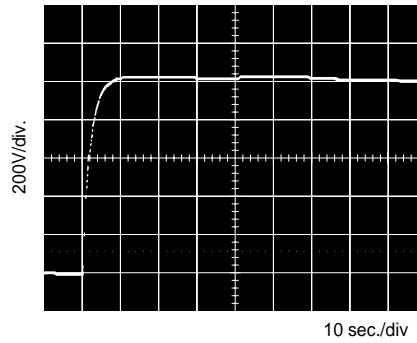
1):FCC(10/560)-100A -3 times, (10/160)-200A -3 times
 2):DOC 1 cycle 10/1000 sec. 1kv-12 times, 100/1000 sec. 1kv-12 times respectively.
 3):UL Standard UL 497A File No. E131010(N)

Surge Absorption Characteristics

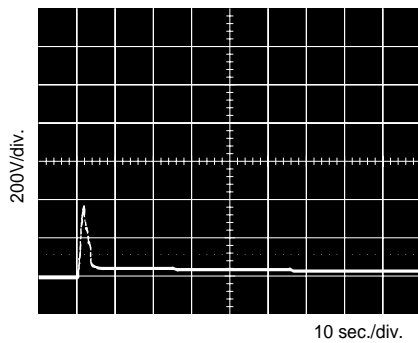
Original waveform
FCC 10/560 sec. 800V



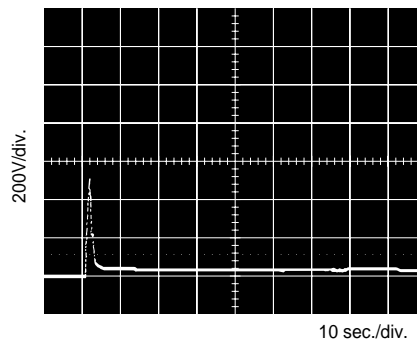
DOC 10/1000 sec. 1000V



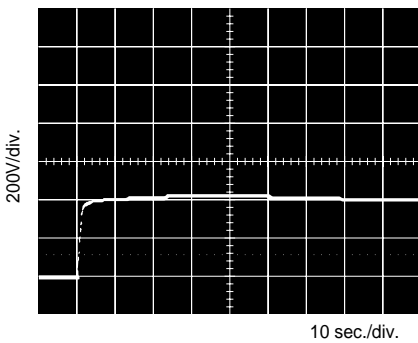
Absorption waveform
DSS—301L, DSSV—301L—YD, DSSV—301L—T5
FCC 10/560 sec. 800V



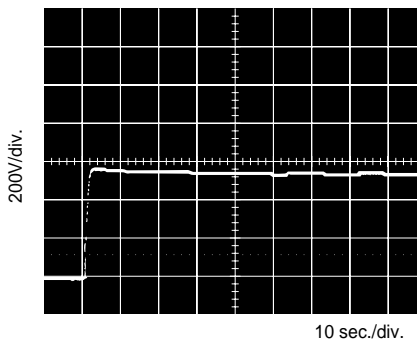
DSS—401L, DSSV—401M—YD, DSSV—401M—T5
DOC 10/1000 sec. 1000V



Varistor 270V



Varistor 390V



Overvoltage Cut Off Properties of DSSV Type

Part number	DSSV—301L—YD, DSSV—401M—YD, DSSV—301L—T5, DSSV—401M—T5					
Applied conditions	AC600V—40A—1.50sec.		AC600V—7A—5sec.		AC600V—2.2A—30min.	
	Ignites (Fail/Pass)	Fuse opens	Ignites (Fail/Pass)	Fuse opens	Ignites (Fail/Pass)	Fuse opens
	0/100	15~35m sec.	0/100	0.3~0.8 sec.	0/100	1~20 sec.

Such overvoltage testing is required in safety standards for telephone, UL1459 and CSA—C22.2 No.225—M90. The DSSV is effective in protecting against these overvoltage conditions by opening the circuit.