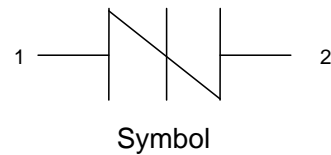


SMB

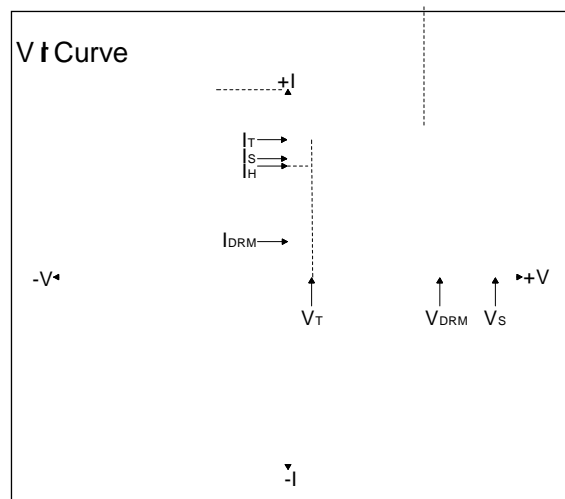


## ABSOLUTE MAXIMUM RATINGS (TA=25°C, RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Value	Unit
Storage temperature range	T <sub>STG</sub>	-60 to +150	
Operating junction temperature range	T <sub>J</sub>	-40 to +125	
Repetitive peak pulse current@10/1000 μs	I <sub>PP</sub>	100	A

## ELECTRICAL CHARACTERISTICS (TA=25°C)

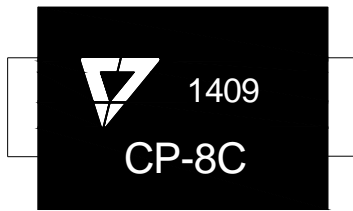
Symbol	Parameter
V <sub>DRM</sub>	Peak off-state voltage
I <sub>DRM</sub>	Off-state current
V <sub>S</sub>	Switching voltage
I <sub>S</sub>	Switching current
V <sub>T</sub>	On-state voltage
I <sub>T</sub>	On-state current
I <sub>H</sub>	Holding current
C <sub>0</sub>	Off-state capacitance



TEL: 86-755-27130000

Moisture sensitivity level: Level 1 (M, M, Ž) @ P  
 — UL 497B item recognized. (File No.: E480698).  
 — IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact).  
 — Non degenerative.

## MARKING



CP-8C: Device Marking Code  
1409: In ninth week, 2014

ELECTRICAL CHARACTERISTICS (V<sub>s</sub> = 25 , continued)

Part Number	I <sub>DRM</sub> @V <sub>DRM</sub>		V <sub>s</sub> @I <sub>s</sub>		V <sub>T</sub> @I <sub>T</sub>		I <sub>H</sub>	Co	Marking
	A	V	V	mA	V	A	mA	pF	
	max		max	max	max	max	min	max	
CP0080SC	1	6	15	800	4	2.2	30	60	CP-8C
CP0220SC	1	18	30	800	4	2.2	30	60	CP22C
CP0300SC	1	25	40	800	4	2.2	30	60	CP03C
CP0640SC	1	58	77	800	4	2.2	120	60	CP06C
CP0720SC	1	65	87	800	4	2.2	120	50	CP07C
CP0900SC	1	75	98	800	4	2.2	120	50	CP09C
CP1100SC	1	90	130	800	4	2.2	120	50	CP11C
CP1300SC	1	120	160	800	4	2.2	120	50	CP13C
CP1500SC	1	140	180	800	4	2.2	120	45	CP15C
CP1800SC	1	170	220	800	4	2.2	120	45	CP18C
CP2300SC	1	190	260	800	4	2.2	120	40	CP23C
CP2600SC	1	220	300	800	4	2.2	120	40	CP26C
CP3100SC	1	275	350	800	4	2.2	120	35	CP31C
CP3500SC	1	320	400	800	4	2.2	120	35	CP35C
CP3800SC	1	340	450	800	4	2.2	120	35	CP38C

V<sub>s</sub> is measured at 100kV/s

Off-state capacitance is measured in V<sub>DC</sub>=2V, V<sub>RMS</sub>=1V, f=1MHz

**SURGRATINGS**

Series	I <sub>PP</sub> (A) min			
	2/10 s	8/20 s	10/360 s	10/1000 s
C	500	400	175	100

**ORDERING INFORMATION**

<p><b>CP</b>     <b>008</b>     <b>0</b>     <b>S</b>     <b>C</b></p> <p>Low capacitance sidactor     Median voltage     0:Bi-direction     Package type     Surge Ratings :6kV(10/700 s)</p>
--

**SOLDERING PARAMETERS**

Reflow Condition		Pb-Free assembly (see FIG.2)
Pre Heat	-Temperature Min (T <sub>s(min)</sub> )	+150
	-Temperature Max(T <sub>s(max)</sub> )	+200
	-Time (Min to Max) (ts)	60-180 secs.
Average ramp up rate (Liquidus Temp (T <sub>L</sub> )to peak)		3 /sec. Max
T <sub>s(max)</sub> to T <sub>L</sub> - Ramp-up Rate		3 /sec. Max
Reflow	-Temperature(T <sub>L</sub> ) (Liquidus)	+217
	-Temperature(t <sub>L</sub> )	60-150 secs.
Peak Temp (T <sub>p</sub> )		+260(+0/-5)
Time within 5 of actual Peak Temp (t <sub>p</sub> )		30 secs. Max
Ramp-down Rate		6 /sec. Max
Time 25 to Peak Temp (T <sub>P</sub> )		8 min. Max
Do not exceed		+260

FIG.1: tr x td pulse waveform

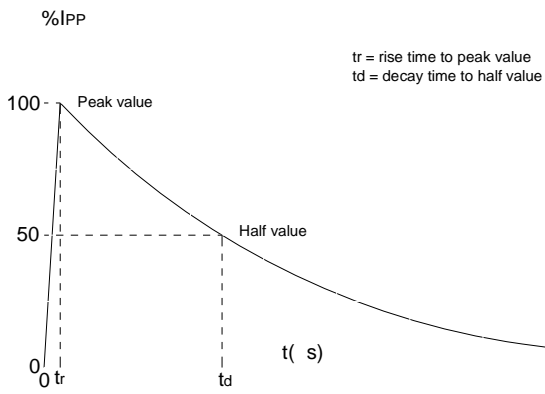
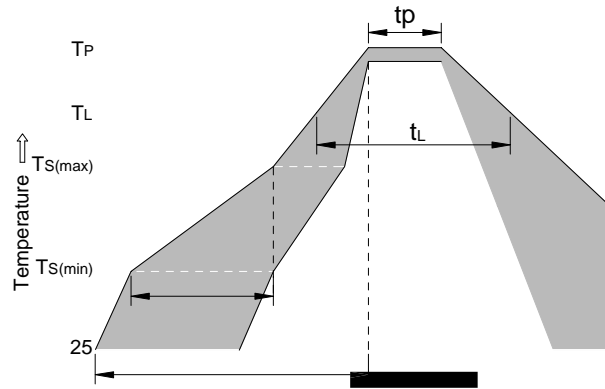


FIG.2: Reflow condition



TAPEREESPECIFICATION

