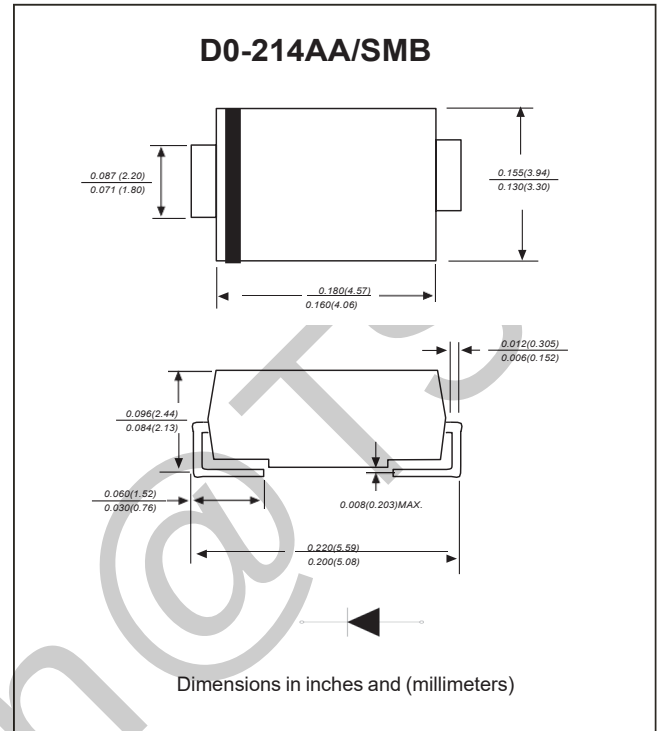


Features

- Low profile package
- Low on-state voltage
- Excellent capability of absorbing transient surge
- Quick response to surge voltage (ns level)
- Eliminates overvoltage caused by fast rising transients
- Moisture sensitivity level: Level 1
- Non degenerative

Mechanical Data

- SMB surface mount package
- Tape & Reel packaging, 3,000pcs per reel
- 48,000pcs per carton
- 13 inch reel pack
- Unit weight 0.098g typ.



Applications

- Digital SPC switch
- Gigabit IP router
- Equipment ground insulation
- Computer

Absolute Maximum Ratings (T_A=25°C, RH=45%-75%, unless otherwise noted)

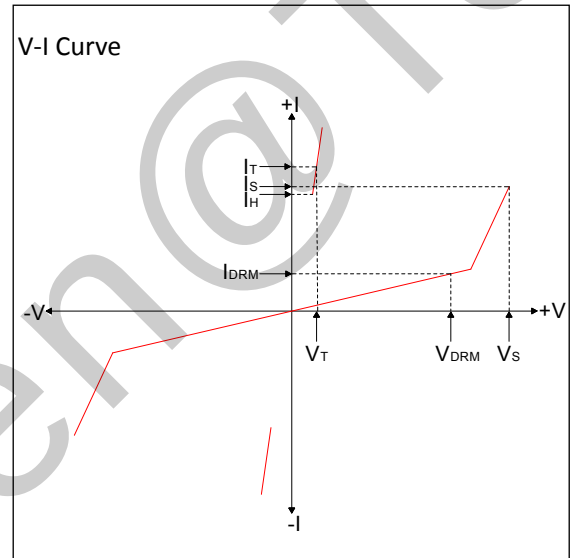
Parameter		Symbol	Value	Unit
Storage temperature range		T _{stg}	-60 to +150	°C
Operating junction temperature range		T _j	-40 to +125	°C
Repetitive peak pulse current	10/1000 us	I _{PP}	100	A
	8/20 us		400	

Electrical Characteristics ($T_A=25^\circ\text{C}$)

Part Number	V_{RM}	I_{RM}	V_{BO}	I_{BO}	V_T	I_T	C_j	I_H
	Min.	Max.	Max.		Max.		Max.	Typ.
	V	μA	V	mA	V	A	pF	mA
P8800SC	750	5	1000	800	4	2.2	50	50

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$)

Symbol	Parameter
V_{DRM}	Peak off-state voltage
I_{DRM}	Off-state current
V_S	Switching voltage
I_S	Switching current
V_T	On-state voltage
I_T	On-state current
I_H	Holding current
C_o	Off-state capacitance


SURGE RATINGS

Series	$I_{PP}(A)$ min			
	2/10 μs	8/20 μs	10/360 μs	10/1000 μs
C	500	400	175	100

ORDERING INFORMATION

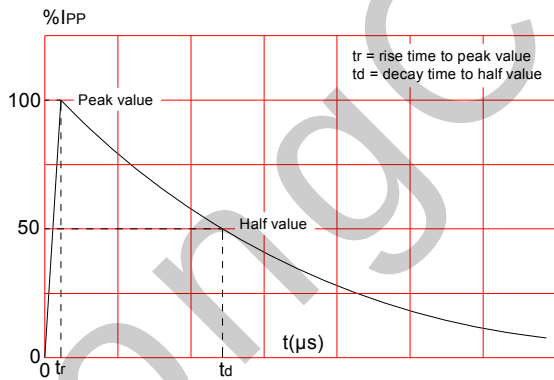
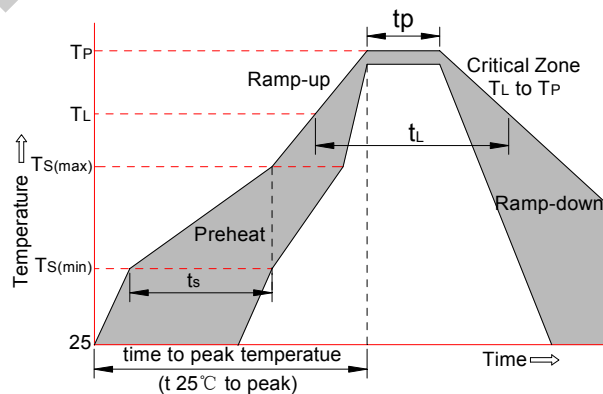
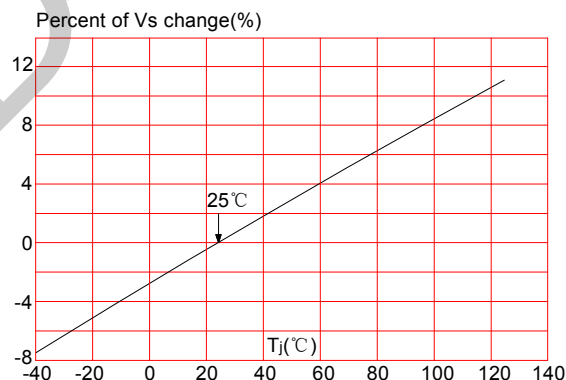
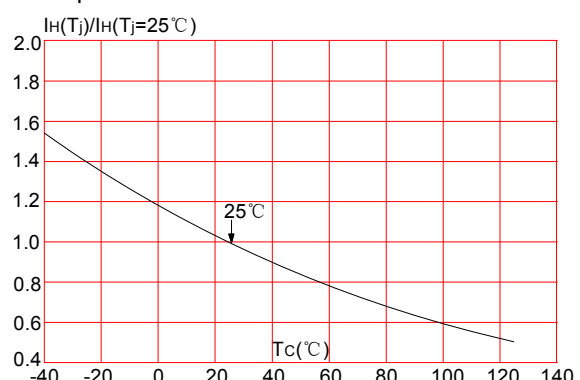
P	880	0	S	C
SIDAC	Median voltage	0:Bi-direction, 1:Uni	Package type	Surge ratings

SOLDERING PARAMETERS

Reflow Condition		Pb-Free assembly (see FIG.2)
Pre Heat	-Temperature Min ($T_{s(min)}$)	+150°C
	-Temperature Max($T_{s(max)}$)	+200°C
	-Time (Min to Max) (t_s)	60-180 secs.
Average ramp up rate (Liquidus Temp (T_L) to peak)		3°C/sec. Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/sec. Max
Reflow	-Temperature(T_L) (Liquidus)	+217°C
	-Temperature(t_L)	60-150 secs.
Peak Temp (T_p)		+260(+0/-5)°C
Time within 5°C of actual Peak Temp (t_p)		30 secs. Max
Ramp-down Rate		6°C/sec. Max
Time 25°C to Peak Temp (T_p)		8 min. Max

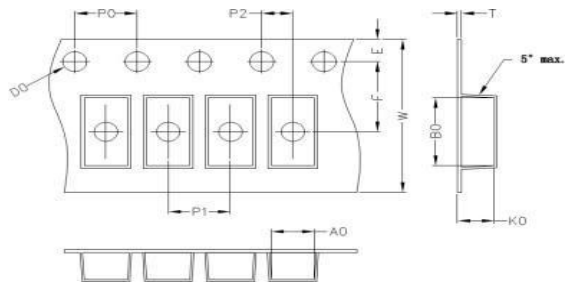
Do not exceed

+260°C

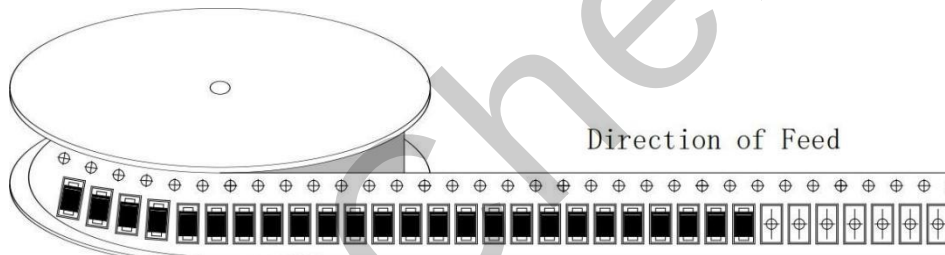
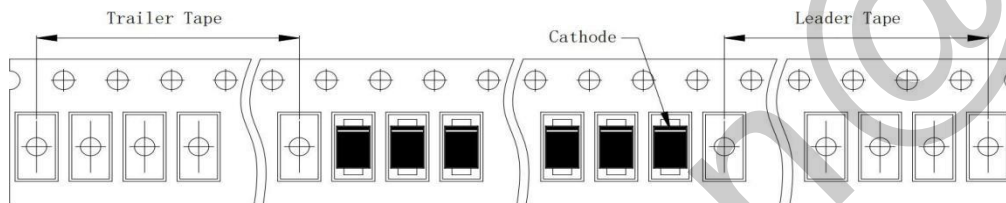
FIG.1: $t_r \times t_d$ pulse waveform

FIG.2: Reflow condition

FIG.3: Normalized V_s change vs. junction temperature

FIG.4: Normalized DC holding current vs. case temperature


Package Information

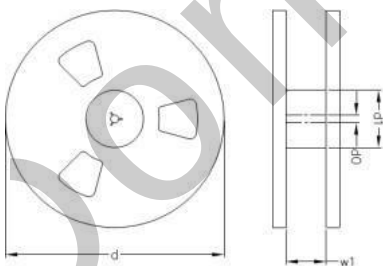
Carrier Dimension(mm)



A0	B0	K0	D0	E	F
3.80 ± 0.2	5.40 ± 0.2	2.45 ± 0.2	1.55 ± 0.1	1.75 ± 0.2	5.50 ± 0.2
P0	P1	P2	T	W	
4.0 ± 0.1	8.0 ± 0.1	2.0 ± 0.1	0.25 ± 0.05	12 ± 0.5	
Leader Tape		25 Empty Pockets			
Trailer Tape		25 Empty Pockets			



Reel Dimension(mm)

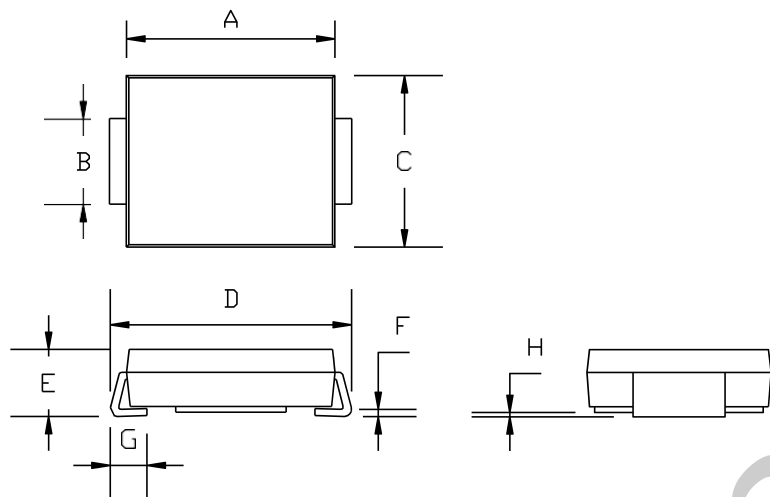


d	d0	d1	w1	t1
330 ± 2.0	13.5 ± 0.2	100 ± 0.5	13.5 ± 0.5	1.20 ± 0.2

Package Specifications

Package	Reel Size	Reel DIA. (mm)	Q'TY/Reel (Kpcs)	Box Size (mm)	QTY/Box (Kpcs)	Carton Size (mm)	Q'TY/Carton (Kpcs)
SMB	13'	330	3.0	340*340*40	6.0	440*360*360	60

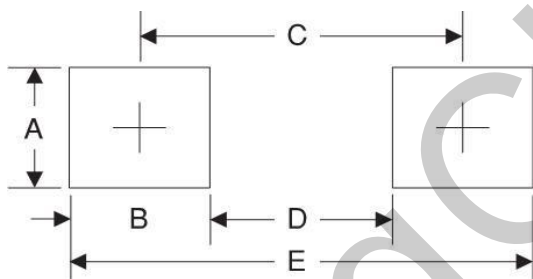
Package Mechanical Data

DO-214AA(SMB)


DO-214AA (SMB)		
Dim	Min	Max
A	4.05	4.75
B	1.85	2.15
C	3.30	3.90
D	5.00	5.50
E	2.10	2.60
F	0.15	0.30
G	0.75	1.50
H	0.05	0.20

Dimensions in millimeters

Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	2.30	0.091
B	2.00	0.078
C	4.10	0.161
D	2.10	0.083
E	6.10	0.240

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