FEATURES

Excellent capability of absorbing transient surge

| Quick response to surge voltage

Eliminates over voltage caused by fast rising transients

| Solid-state silicon te chnology, non degenera



SMB(DO-214AA)

P008C

Marking



Schematic Symbol

APPLICATIONS

Audio/Video line

Network and telecom

Data lines and security systems

Serial ports

ELECTRICAL CHARACTERISTICS

Part Number	V _{DRM}	V _s	V _T	l _{DRM}	I _s	I _T	I _H	C _o
rait Number	Min. (V)	Max. (V)	Max. (V)	Max. (μA)	mA	Max. (A)	Min. (mA)	Typ.(pF)
P0080SC	6.0	25.0	4.0	5.0	800.0	2.2	50.0	80.0

APPROVALS

HF

RoHS Compliance with 2011/65/EU

Compliance with IEC61249-2-21:2003

SURGE RATINGS

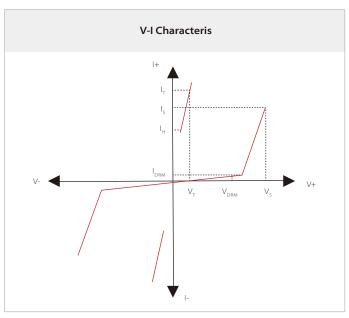
Part Number	I _{pp} 2x10us		l _{թթ} 10x560us	I _{PP} 10x1000us	V _{PP} 10x700us	I _{TSM} 50/60H z	d _i /d _t	
Tare realises	(A)	(A)	(A)	(A)	(V)	(A)	(A/us)	
P0080SC	500	400	150	100	6000	30	500	

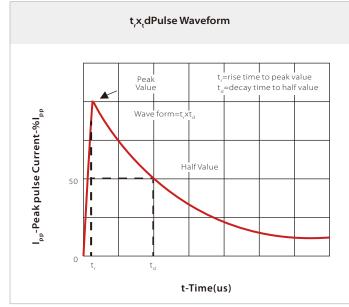


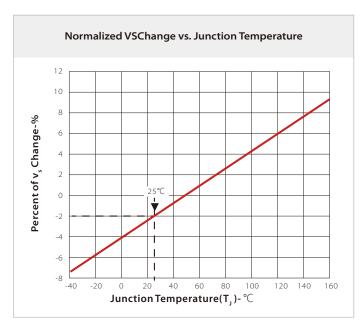
THERMAL CONSIDERATIONS

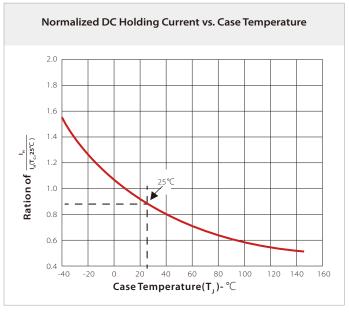
Symbol	Parameter	Value	Unit
$R_{\theta JA}$	Junction to Ambient on printed circuit	90	C/W
T _J	Operating Junction Temperature	-55 to +125	Č
T _{STG}	Storage Temperature Range	-55 to +150	Č

RATINGS AND CHARACTERISTIC CURVES ($T_A = 25$ °C)





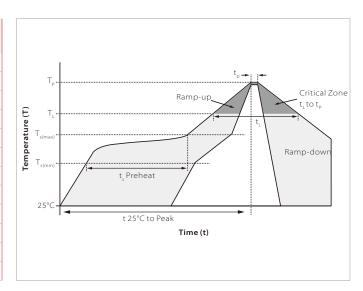




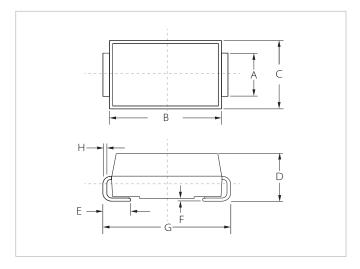


SOLDERING PARAMETERS

	Reflow Condition	Lead-free assembly	
	Temperature Max (T _{s(min)})	150°C	
Pre Heat	Temperature Max (T _{s(max)})	200°C	
	Time (min to max) (t¸)	60 – 180 secs	
Average ra	mp up rate (Liquidus Temp (T_L) to peak	3°C/second max	
	$T_{s(max)}$ to T_L - Ramp-up Rate	3°C/second max	
Reflow	Temperature (T _.) (Liquidus)	217°C	
Kellow	Time (min to max) ($t_{\scriptscriptstyle L}$)	60 – 150 seconds	
Peak Tem	perature (T₀)	260°C	
Time with	nin 5°C of actual peak Temperature (t _p)	20 – 40 seconds	
Ramp-down Rate Time 25°C to peak Temperature (T,)		6°C/second max	
		8 minutes max.	
Do not ex	kceed	260°C	



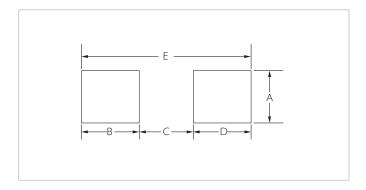
DO-214AA(SMB) PACKAGE INFORMATION



Ref.	IVIIIIII	ieters	inches		
nei.	Min.	Max.	Min.	Max.	
А	1.80	2.20	0.071	0.087	
В	4.30	4.70	0.170	0.185	
С	3.40	3.90	0.134	0.153	
D	2.15	2.55	0.085	0.100	
E	1.00	1.50	0.039	0.059	
F	0.02	0.20	0.001	0.008	
G	5.10	5.50	0.200	0.216	
Н	0.15	0.30	0.006	0.012	



RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millin	neters	Inches		
	Min.	Max.	Min.	Max.	
А	2.20	-	0.087	-	
В	1.45	-	0.057	-	
С	-	2.55	-	0.010	
D	1.45	-	0.057	-	
Е	5.60REF		0.220	OREF	

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
P0080SC	DO-214AA(SMB)	3000PCS	13"



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