

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

| Meet AEC-Q101 Requirements



SMA(DO-214AC)



APPLICATIONS

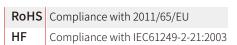
APPROVALS

Audio/Video line

Network and telecom

Data lines and security systems

| Serial ports





Schematic Symbol

ELECTRICAL CHARACTERISTICS

Part Number	$V_{_{\mathrm{DRM}}}$	V_s	V_{\scriptscriptstyleT}	I _{DRM}	I _s	I _T	I _H	C_{o}
	Min. (V)	Max. (V)	Max. (V)	Max. (μA)	mA	Max. (A)	Min. (mA)	Typ.(pF)
TPP0080TB	6.0	25.0	4.0	5.0	800.0	2.2	40.0	80.0

SURGE RATINGS

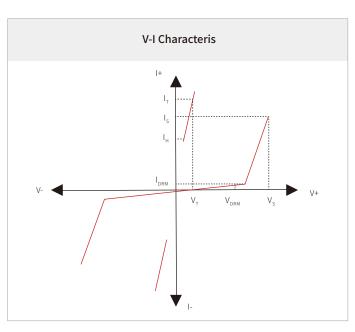
	Part Number	I _{PP} 2x10us	I _{PP} 8x20us	I _{PP} 10x560us	I _{PP} 10x1000us	V _{PP} 10x700us	I _{тsм} 50/60Hz	d_i/d_t
Tare Number	(A)	(A)	(A)	(A)	(V)	(A)	(A/us)	
	TPP0080TB	250	250	100	80	4000	25	500

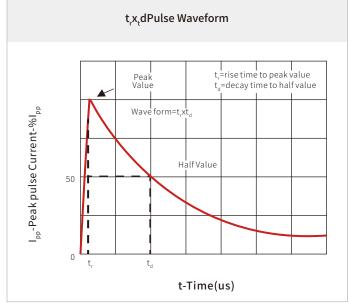


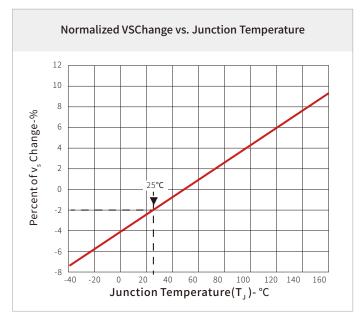
THERMAL CONSIDERATIONS

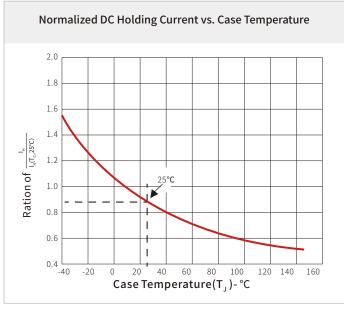
Symbol	Parameter	Value	Unit
$R_{\theta JA}$	Junction to Ambient on printed circuit	90	°C/W
T _J	Operating Junction Temperature	-55 to +125	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

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





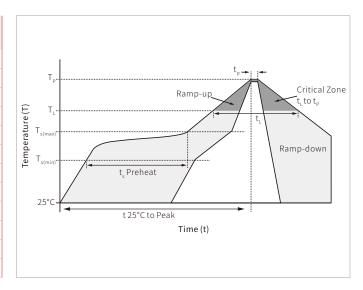




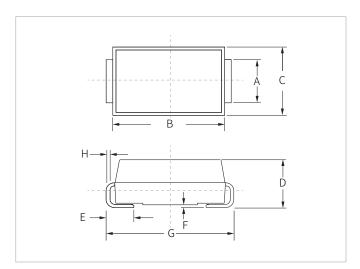


SOLDERING PARAMETERS

	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_s)	60 – 180 secs
Average rar	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) (t₁)	60 – 150 seconds
Peak Ten	nperature (T₅)	260°C
Time with	nin 5°C of actual peak Temperature (t _p)	20 – 40 seconds
Ramp-do	own Rate	6°C/second max
Time 25°	C to peak Temperature (T♭)	8 minutes max.
Do not ex	cceed	260°C



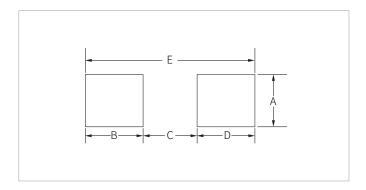
DO-214AC(SMA) PACKAGE INFORMATION



Ref.	Millim	neters	Inches		
	Min.	Max.	Min.	Max.	
А	1.20	1.60	0.047	0.063	
В	4.20	4.60	0.165	0.181	
С	2.40	2.80	0.094	0.110	
D	2.00	2.40	0.079	0.094	
Е	0.76	1.52	0.030	0.060	
F	0.02	0.20	0.001	0.008	
G	4.85	5.25	0.191	0.207	
Н	0.15	0.30	0.006	0.012	



RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millim	neters	Inches		
	Min.	Max.	Min.	Max.	
А	1.63	-	0.064	-	
В	1.45	-	0.057	-	
С	-	2.80	-	0.090	
D	1.45	-	0.057	-	
E	5.28REF		0.20	8REF	

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
TPP0080TB	DO-214AC(SMA)	5000PCS	13"



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