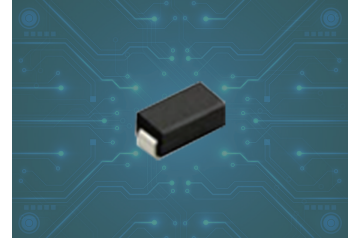


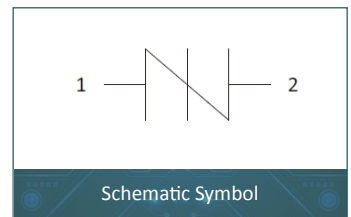
1. FEATURES

- Excellent capability of absorbing transient surge
- Quick response to surge voltage
- Eliminates over voltage caused by fast rising transients
- Solid-state silicon technology, non degenerate



2. APPLICATIONS

- Audio/Video line
- Network and telecom
- Data lines and security systems
- Serial ports



3. THERMAL CONSIDERATIONS

Symbol	Parameter	Value	Unit
$R_{\theta JA}$	Junction to Ambient on printed circuit	120	°C/W
T_J	Operating Junction Temperature	-55 to +125	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

4. ELECTRICAL CHARACTERISTICS

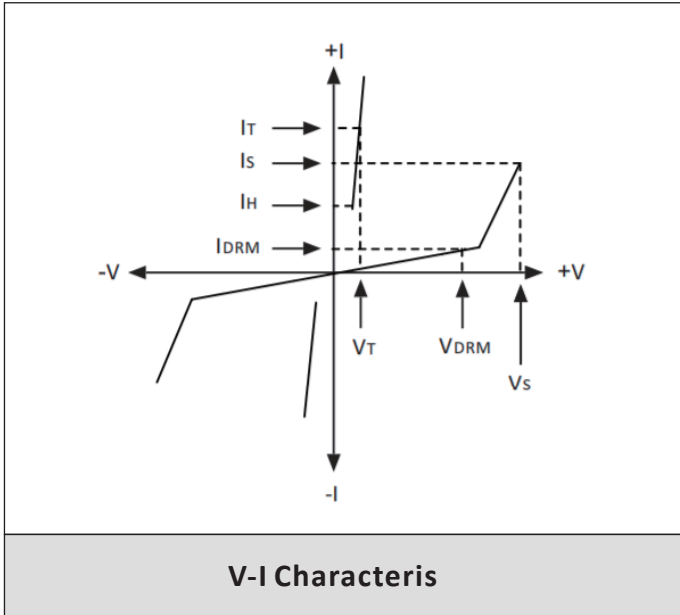
Part Number	V_{DWN}	I_{DRM}	V_S	I_S	V_T	I_T	I_H	C_o
	Min.(V)	Max.(uA)	Max.(V)	(mA)	Max.(V)	Max.(A)	Min.(mA)	Typ.(pF)
P0080TA	6.0	5.0	25.0	800.0	4.0	2.2	20.0	25.0

5. SURGE RATINGS

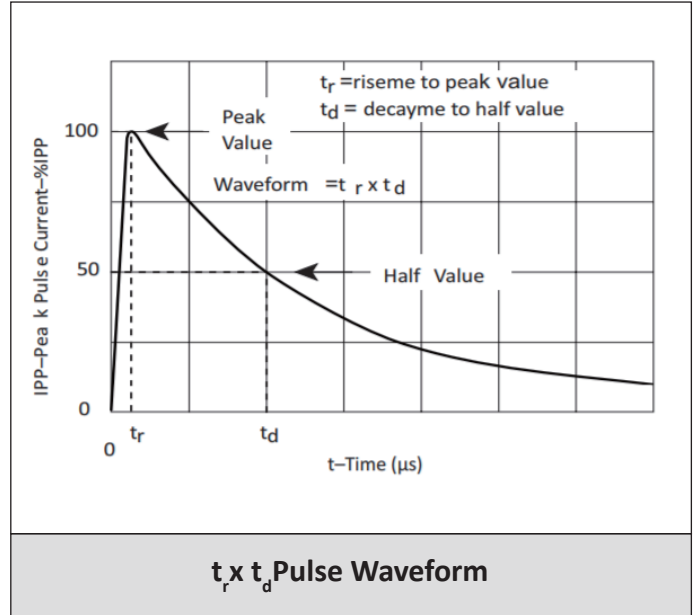
Part Number	V_{PP} 10x700uS	I_{PP} 5x310uS
	(V)	(A)
P0080TA	2000	50



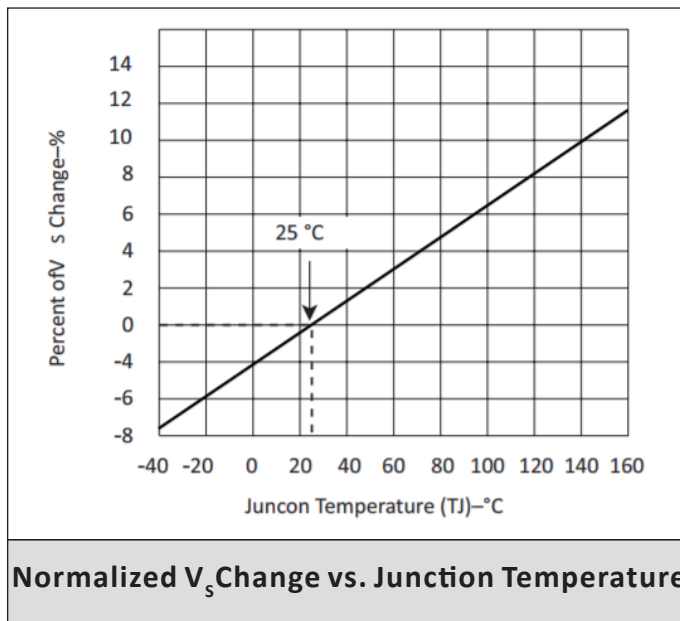
6. CHARACTERISTIC CURVES



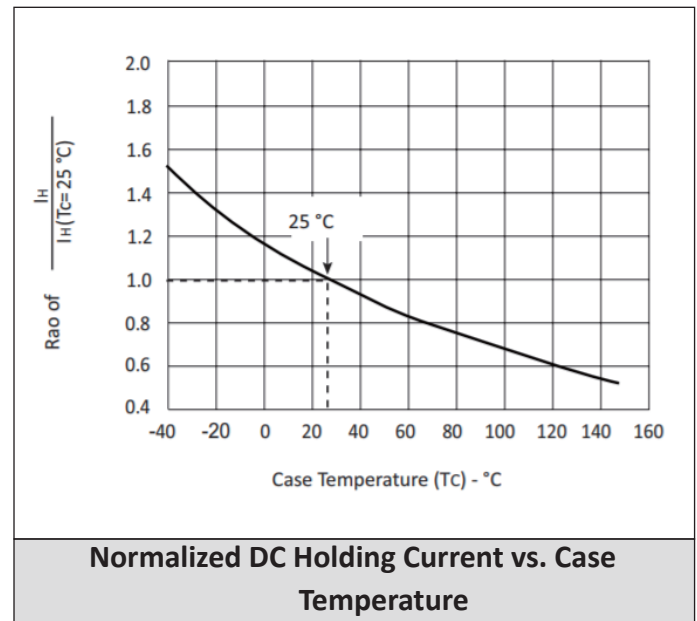
V-I Characteris



$t_r \times t_d$ Pulse Waveform



Normalized V_S Change vs. Junction Temperature

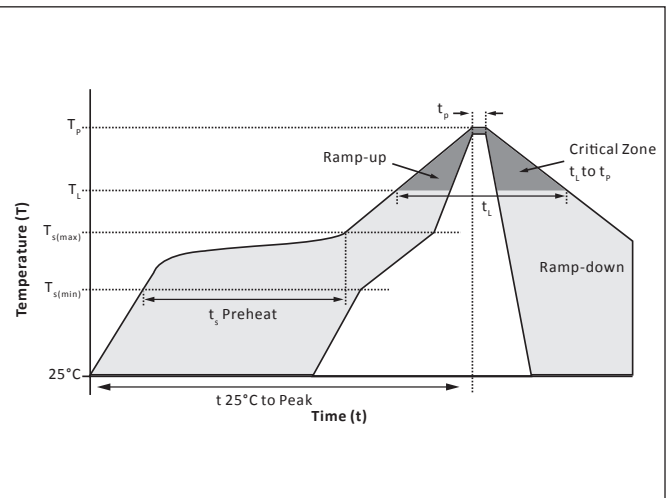


Normalized DC Holding Current vs. Case Temperature



7. SOLDERING PARAMETERS

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Max ($T_{s(min)}$)	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/second max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Time (min to max) (t_L)	60 – 150 seconds
Peak Temperature (T_p)		260°C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_p)		8 minutes max.
Do not exceed		260°C



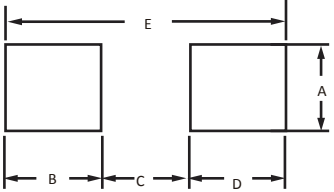
8. DO-214AC(SMA) PACKAGE INFORMATION

Item	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.23	1.63	0.048	0.064
B	4.10	4.55	0.161	0.179
C	2.60	2.80	0.102	0.110
D	2.15	2.35	0.085	0.093
E	0.75	1.51	0.030	0.059
F	0.02	0.20	0.001	0.008
G	4.87	5.22	0.192	0.206
H	0.15	0.30	0.006	0.012



9. RECOMMENDED PAD LAYOUT DIMENSIONS

DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	1.63	-	0.064	-
B	1.45	-	0.057	-
C	-	2.80	-	0.090
D	1.45	-	0.057	-
E	5.28REF		0.208REF	



10. ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
P0080TA	DO-214AC(SMA)	7500PCS	13"



CONTACT US

Headquarters

No.3387 Shendu Road Pujiang I&E Park Minhang Shanghai China

Hotline

400-021-5756

Web

[Http://www.semiware.com](http://www.semiware.com)

By Telephone

General:86-21-3463-7172

Sales:86-21-3463-7345

Technical Support:86-21-3463-7654

By Fax

General:86-21-3965-0654

Sales:86-21-3463-7458

By Email

General:china@semiware.com

Sales:sales@semiware.com

Technical Support:fae@semiware.com

By QR Code



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