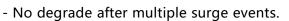


Features



- Low over shoot voltage
- Fail short if surge rating over specification
- Plastic package is flammability rated V-0 per UL-94
- IEC61000-4-2 +/-30kV both contact and air
- IEC61000-4-4 50A(5/50nS)

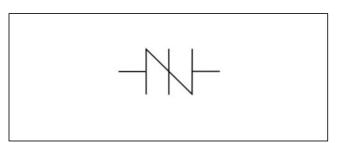


RoHS Compliant

Applications

SMA TSS is designed to protect baseband equipment such as phones, faxes, modems, line cards, CPE and DSL from damaging overvoltage transients. Also it is widely used on suvillance CVBS port surge protecttion.

Function Diagram



Characteristics (T = 25°C unless otherwise noted)

Part Number	Marking	Vdrm@5uA (Volts) Min	s) (Volts) (mA)		IS (mA)	IT (A)			Capacitance (pF) 21MHz, 2V bias	
		Null 1	Max	Min	Max	Max		Min	Max	
P0080S1BLRP	P-8B	6	25	50	800	2.2	4	20	35	
P0080S1BLRP-LVS	P8BL	6.5	13	20	-	2.2	4	20	35	

Surge Ratings

20	I _{pp}										
erie	0.2/310 ¹	2/10 1	8/20 ¹	10/1601	10/560 ¹	5/320 ¹	10/3601	10/10001	5/310 ¹	I _{тsм} 50/60 Hz	di/dt
	0.5/700 ²	2/10 ²	1.2/50 ²	10/160 ²	10/560 ²	9/720 ²	10/360 ²	10/1000 ²	10/700 ²	50/60 HZ	
	A min	A min	A min	A min	A min	A min	A min	A min	A min	A min	Amps/µs max
А	20	150	150	90	50	75	75	50	75	20	500
В	-	250	250	90	60	75	75	55	100	25	500

Notes:

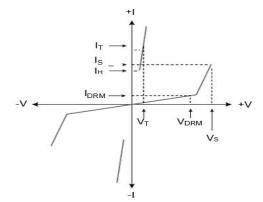
1 Current waveform in µs

2 Voltage waveform in µs

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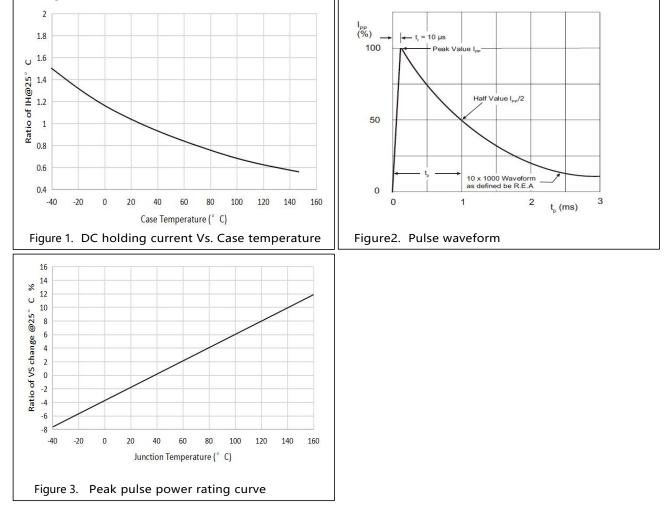


I-V Curve Characteristics



- VDRM Stand-off Voltage -- Maximum voltage that can be applied to the TSS without operation
- VS Switch on Voltage -- Maximum voltage that trigger the TSS to on state
- VT Turn on Voltage -- Voltage drop after TSS is triggered on
- IDRM Reverse Leakage Current -- Current measured at VDRM
- IS Switch on Current -- Maximum current that trigger the TSS to on state

Ratings and Characteristic Curves (T = 25°C unless otherwise noted)

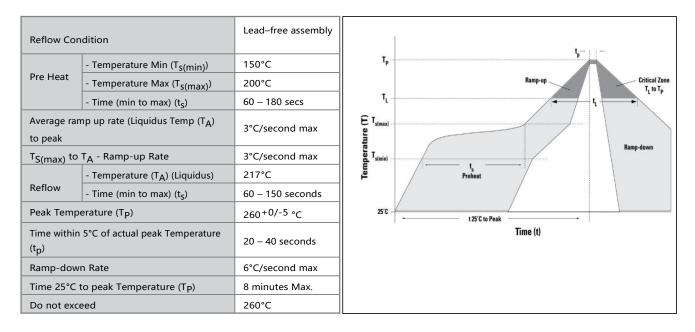


Jiangsu Semicon Champion Microelectronics Co., Ltd.



Soldering Parameters

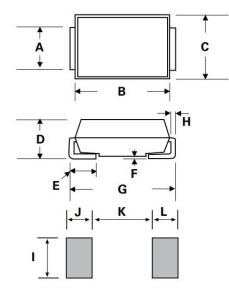
Soldering profile





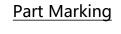


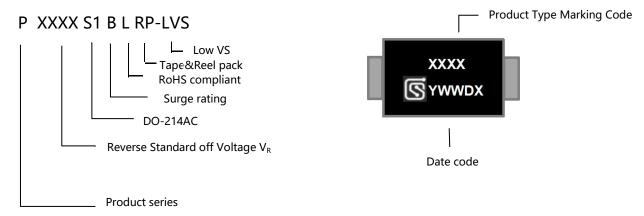
Dimensions



	Incl	hes	Millim	neters
	Min	Max	Min	Max
А	0.049	0.065	1.250	1.650
В	0.157	0.177	3.990	4.500
С	0.100	0.110	2.540	2.790
D	0.078	0.090	1.980	2.290
E	0.030	0.060	0.780	1.520
F	-	0.008	-	0.203
G	0.194	0.208	4.930	5.280
н	0.006	0.012	0.152	0.305
I	0.070	-	1.800	-
J	0.082	-	2.100	-
к	-	0.090	-	2.300
L	0.082	-	2.100	-

Part Numbering



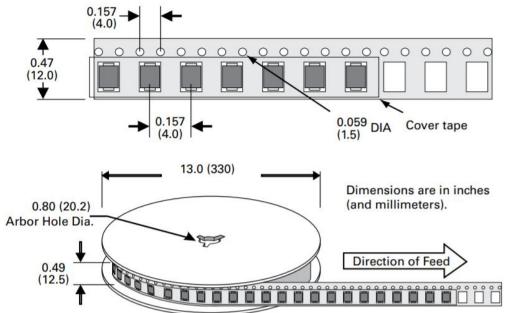


Packing

Part number	Package name	Small packing quantity	Packing method
PXXXXS1BLRP	DO-214AC	5000	Tape & Reel



Tape and Reel Specification



Revision history of Specification

Version	Change Items	Effective Date	
1.0	Initial Release	14-Oct-2021	
1.1	Add P0080S1BLRP-LVS	10-16-2022	