



PxxxxLB Series TSS

Rev.1.1

DESCRIPTION:

PxxxxLB series are a type of semiconductor component. They are designed to protect baseband equipment from damaging overvoltage transients.

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.
- UL 497B item recognized. (File No.: E480698).
- IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact).
- Non degenerative.

ABSOLUTE MAXIMUM RATINGS (TA=25°C, RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Value	Unit
Storage temperature range	T <sub>STG</sub>	-60 to +150	
Operating junction temperature range	T <sub>J</sub>	-40 to +125	
Repetitive peak pulse current@10/1000 s	I <sub>PP</sub>	80	A

ELECTRICAL CHARACTERISTICS (TA=25°C)

Symbol	Parameter
V <sub>DRM</sub>	Peak off-state voltage
I <sub>DRM</sub>	Off-state current f704Tm 0 Tc .V

ELECTRICAL CHARACTERISTICS (10-25 °C, continued)

Part Number	I <sub>DRM</sub> @V <sub>DRM</sub>		V <sub>s</sub> @I <sub>s</sub>		V <sub>T</sub> @I <sub>T</sub>		I <sub>H</sub>	C <sub>o</sub>
	A	V	V	mA	V	A	mA	pF
	max		max	max	max	max	min	max
P0080LB	1	6	15	800	4	2.2	50	130
P0220LB	1	15	30	800	4	2.2	50	120
P0300LB	1	25	40	800	4	2.2	50	120
P0640LB	1	58	77	800	4	2.2	120	80
P0720LB	1	66	87	800	4	2.2	120	75
P0900LB	1	75	98	800	4	2.2	120	70
P1100LB	1	90	130	800	4	2.2	120	70
P1300LB	1	120	160	800	4	2.2	120	60
P1500LB	1	140	180	800	4	2.2	120	55
P1800LB	1	170	220	800	4	2.2	120	50
P2300LB	1	190	260	800	4	2.2	120	50
P2600LB	1	220	300	800	4	2.2	120	45
P3100LB	1	275	350	800	4	2.2	120	45
P3500LB	1	320	400	800	4	2.2	150	40

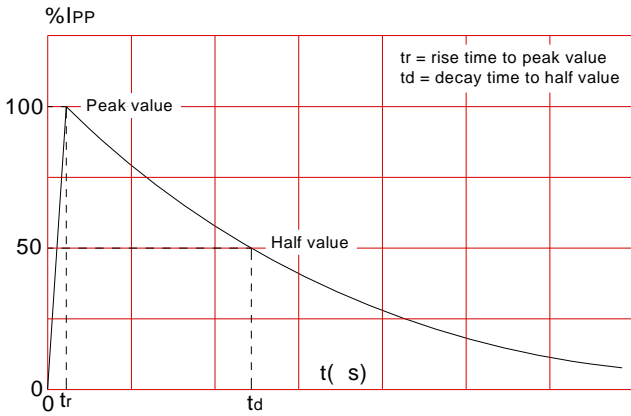
H01

SOLDERING PARAMETERS

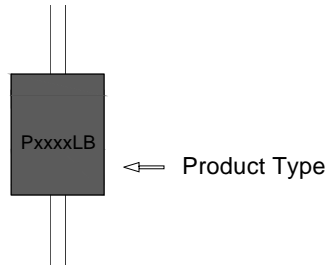
Reflow Condition		Pb-Free assembly (see figure at right)
Pre Heat	-Temperature Min ( $T_{s(min)}$ )	+150
	-Temperature Max( $T_{s(max)}$ )	+200
	-Time (Min to Max) (ts)	60-180 secs.
Average ramp up rate (Liquidus Temp ( $T_L$ )to peak)		3 /sec. Max

$T_{s(max)}$  to  $T_L$

FIG.3: tr x td pulse waveform

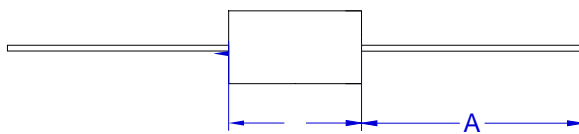


MARKING ORDERING INFORMATION



- |     |     |     |     |     |
|-----|-----|-----|-----|-----|
| P   | xxx | x   | L   | B   |
| (1) | (2) | (3) | (4) | (5) |
- (1)Thyristor surge suppressors
  - (2) $V_s$  voltage code
  - (3)Bi-directional
  - (4)Package:DO-15
  - (5)Surge ratings:4kV(10/700 s)

PACKAGE MECHANICAL DATA



TAPE AND BOX SPECIFICATION DC15

