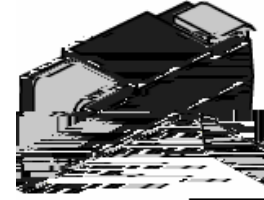




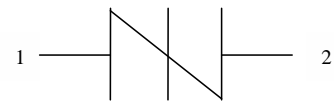
PxxxxSBL Series TSS

Rev. 0.1

- ◆ Eliminates overvoltage
- ◆ High sensitivity
- ◆ RoHS compliant
- ◆ ESD protection (ESD 100-4-2)
- ◆ Non degenerative.



SMB



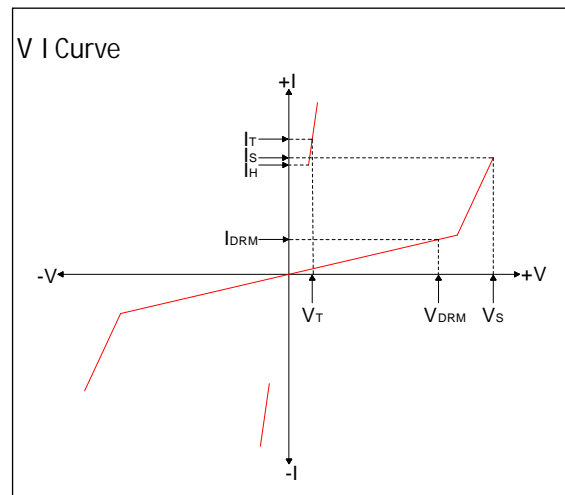
Symbol

ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ , RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Value	Unit
Storage temperature range	$T_{STG}$	-60 to +150	
Operating junction temperature range	$T_J$	-40 to +125	
Repetitive peak pulse current @ 10/1000 $\mu\text{s}$	$I_{PP}$	80	A

ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ )

Symbol	Parameter
$V_{DRM}$	Peak off-state voltage
$I_{DRM}$	Off-state current
$V_S$	Switching voltage
$I_S$	Switching current
$V_T$	On-state voltage
$I_T$	On-state current
$I_H$	Holding current
$C_o$	Off-state capacitance



MARKING

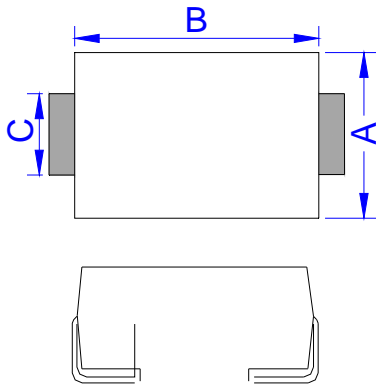


## SOLDERING PARAMETERS

Reflow Condition		Pb-Free assembly (see FIG.2)
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 $T_L$ - Ramp-up Rate		3 /sec. Max
Reflow	-Temperature( $T_L$ ) (Liquidus)	+217
	-Temperature( $t_L$ )	60-150 secs.
Peak Temp ( $T_p$ )		+260(+0/-5)
Time within 5 of actual Peak Temp ( $t_p$ )		30 secs. Max
Ramp-down Rate		6 /sec. Max
Time 25 to Peak Temp ( $T_P$ )		8 min. Max
Do not exceed		+260

PACKAGE

DATA



Ref.	Dimensions			
	Millimeters		Inches	
	Min.			
A	3.30			
B	4.30			
C	1.90			
D	0.95			
E	5.20			
F	0.051			
G	0.15			

DO-214AA (SMB)

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