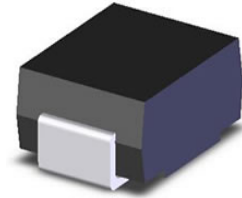


## Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:  
260 °C/10seconds,9.5mm lead length
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking



## DO-214AA/SMB

## Mechanical Data

- Case:DO-214AA Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free

## Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless other wise specified.

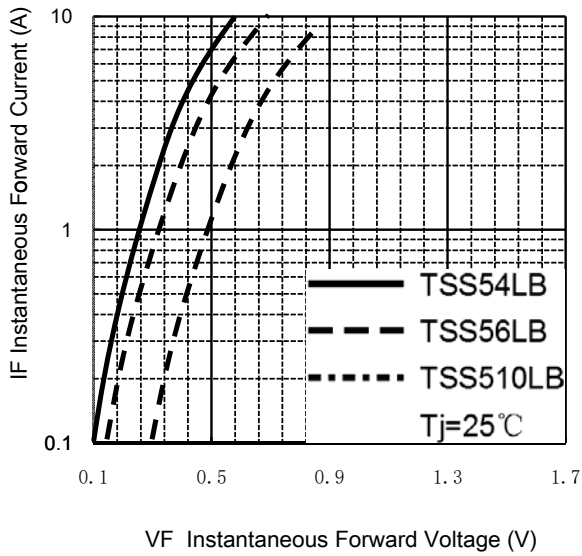
Parameter	Symbols	TSS54LB	TSS56LB	TSS510LB	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	40	60	100	V
Maximum RMS voltage	$V_{RMS}$	28	42	70	V
Maximum DC blocking voltage	$V_{DC}$	40	60	100	V
Maximum average forward rectified current	$I_{F(AV)}$	5.0			A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	$I_{FSM}$	125			A
@ $I_F=5.0A$ Maximum forward voltage	$V_F$	0.43	0.52	0.65	V
@ $V_{DC}$ Maximum reverse current	$I_R$	TA= 25°C 200	100	50	μA
		TA=100°C 20	10	5	mA
Typical thermal resistance (Note 1)	$R_{\theta JA}$	20			°C/W
VR=4.0V,f=1MHz Type junction capacitance	$C_J$	350	380	400	pF
Operating junction temperature rang	$T_J$	-55 --- +125		-55 --- +150	°C
Storage temperature rang	$T_{STG}$	-55 --- +150			°C

Note:

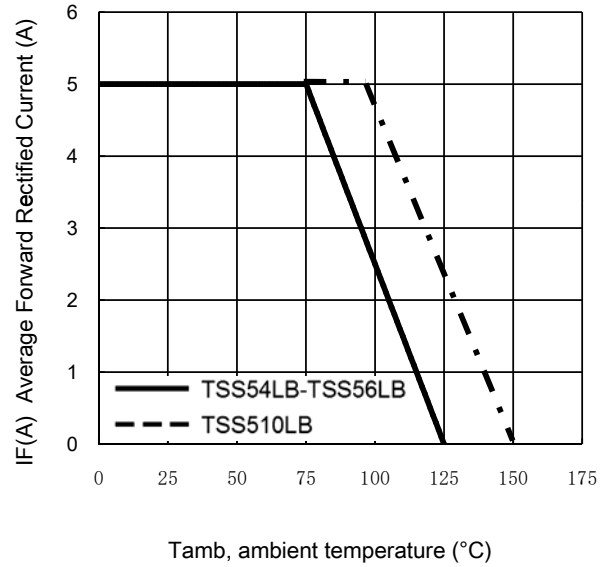
- 1) Thermal resistance from junction to ambient, PCB mounted.

## Characteristic Curves

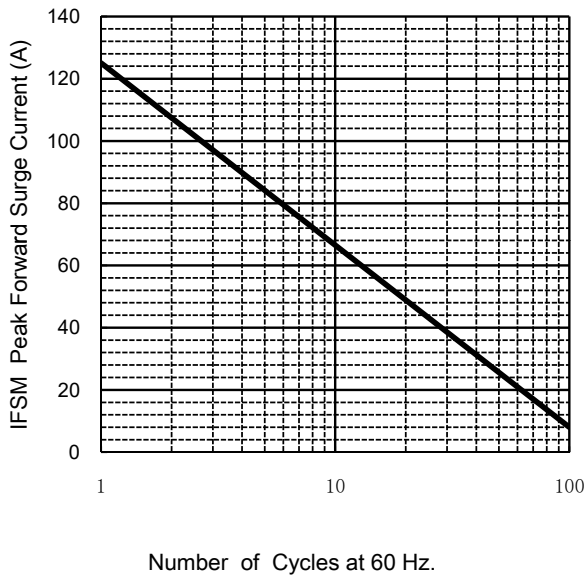
TYPICAL FORWARD CHARACTERISTIC



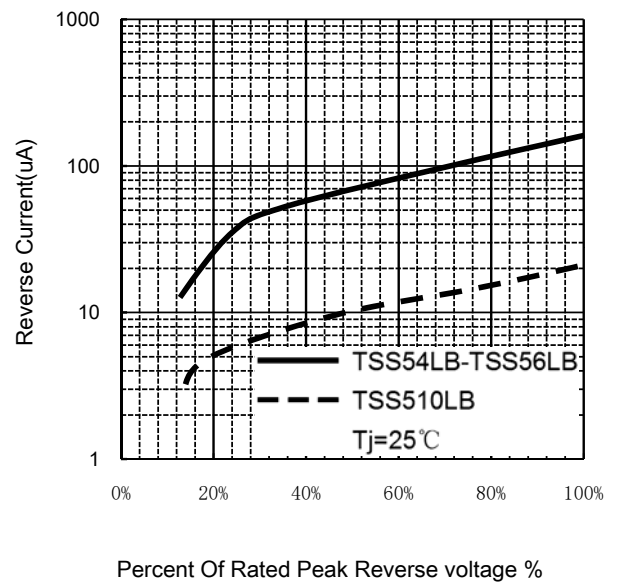
FORWARD CURRENT DERATING CURVE



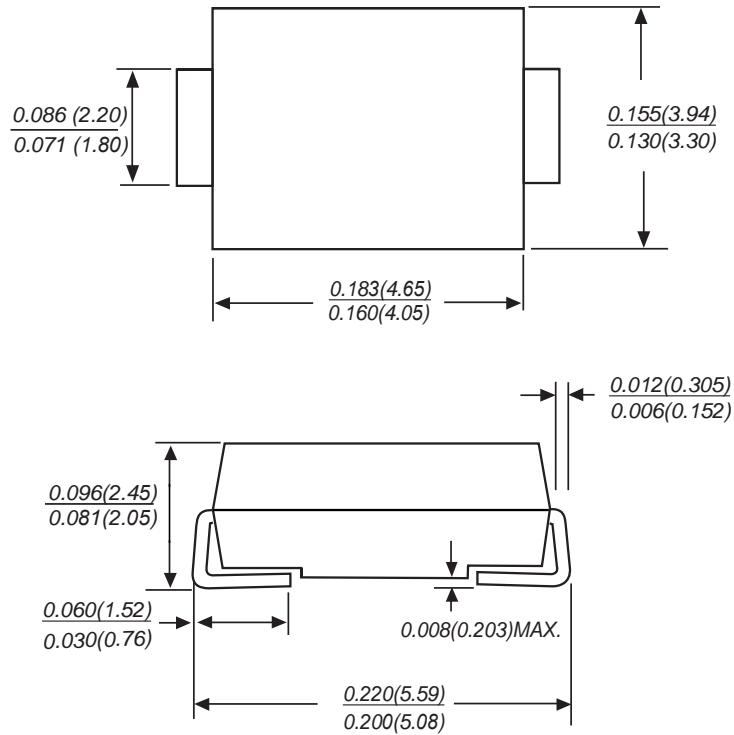
MAXIMUM NON REPETITIVE  
PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics



## Package Outline



Dimensions in inches and (millimeters)

## Package Information

Qty: 3,000 /Tape and reel