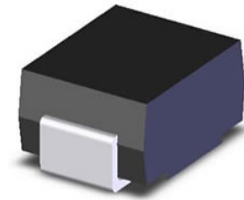


Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:
260 °C/10seconds
- Lead and body according with RoHS stand
- 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.

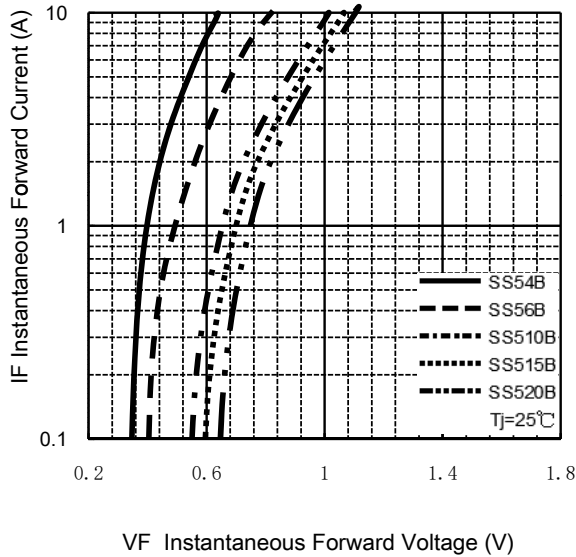
Parameter	Symbols	SS54B	SS56B	SS510B	SS515B	SS520B	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	40	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	28	42	70	105	140	V
Maximum DC blocking voltage	V_{DC}	40	60	100	150	200	V
Maximum average forward rectified current	$I_{F(AV)}$	5.0					A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	125					A
Maximum forward voltage @ $I_F=5.0A$	V_F	0.50	0.70	0.85	0.92	0.95	V
Maximum reverse current @ V_D	I_R	500		10			μA
		20		5			mA
Typical thermal resistance (Note 1)	R θ JA	60					°C/W
	R θ JL	20					
VR=4.0V,f=1MHz Type junction capacitance	C_j	250					pF
Operating junction	T_j	-55 --- +125	-55 --- +150				°C
Storage temperature rang	TSTG	-55 --- +150					°C

Note:

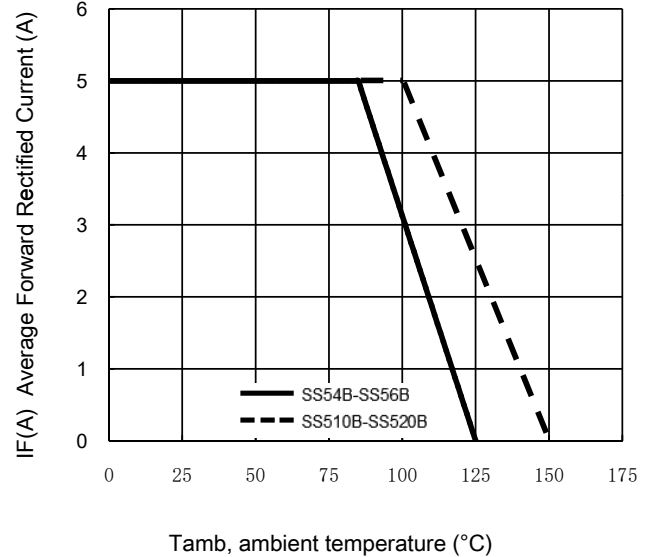
- 1) Thermal resistance from junction to ambient , PCB mounted.

Characteristic Curves

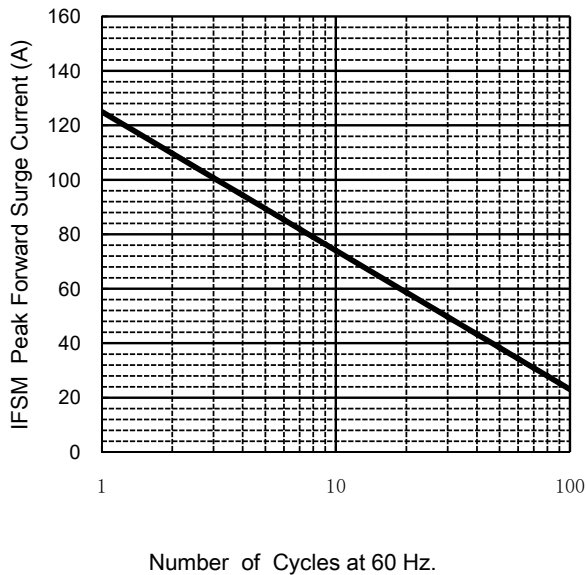
TYPICAL FORWARD CHARACTERISTIC



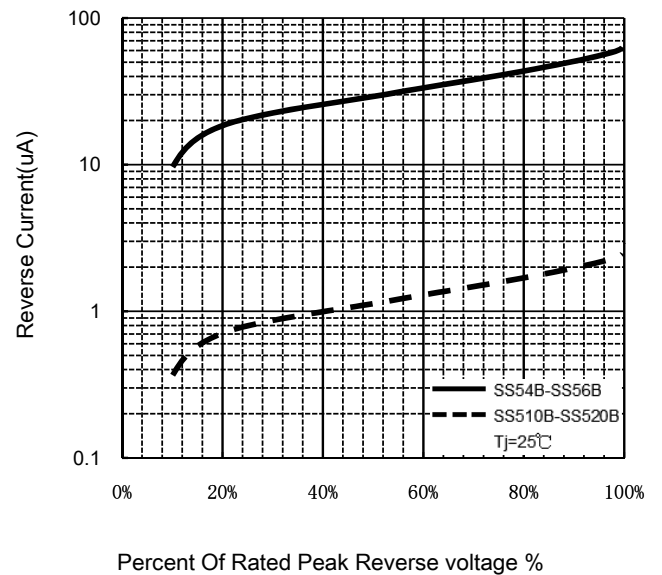
FORWARD CURRENT DERATING CURVE



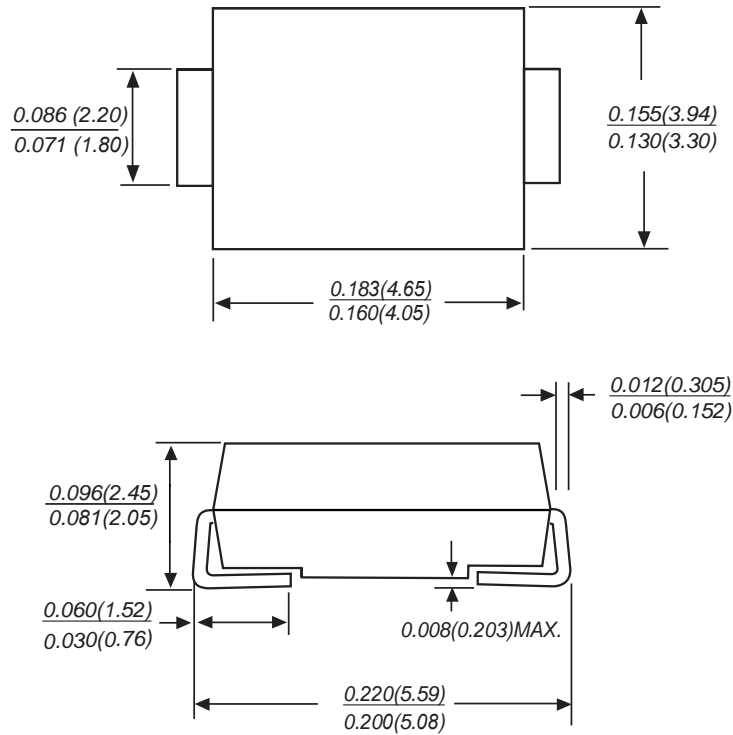
MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics



Package Outline



Dimensions in inches and (millimeters)

Package Information

Qty: 3,000/Tape and reel