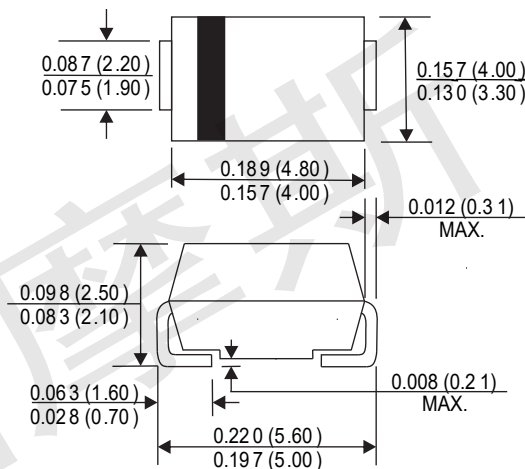


Features And Mechanical Data

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for over voltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering:260°C MAX at 10 seconds,
- per JESD 22-B106 or MIL-STD-750,method 2026
- Case: JEDEC SMB molded plastic body

SMB(DO-214AA)



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number Parameter Marking code		Symbols	SS34B	SS345B	SS36B	SS38B	SS310B	SS315B	SS320B	Units
			SK34B	SK345B	SK36B	SK38B	SK310B	SK315B	SK320B	
Maximum Recurrent Peak Reverse Voltage		VRRM	40	45	60	80	100	150	200	V
Maximum RMS Voltage		VRMS	28	31.5	42	56	70	105	140	V
Maximum DC Blocking Voltage		VDC	40	45	60	80	100	150	200	V
Maximum Average Forward Rectified Current. Lead Length @ Tj=25°C		I(AV)	3.0							A
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)		IFSM	80							A
Maximum Forward Voltage @I(AV)		VF	0.55	0.70		0.85		0.9	0.95	V
Maximum DC reverse current at rated DC blocking voltage per	TJ=25	IR	0.2			0.1				mA
	TJ=105		20			6				
Typical Thermal Resistance TJ =25°C 1)		RθJA RθJL	70 22						°C/W	
Typical Junction Capacitance (@1.0 MHz and applied reverse voltage of 4.0 V DC)		CJ	250						pF	
Operating Temperature Range TJ		TJ	-55 to +125			-55 to +150				°C
Storage Temperature Range TSTG		TSTG	-55 to +150						°C	

Note:

- 1.Unit mounted on 16 mm*16 mm*1.6 mm 1oz/ft² glass epoxy PCB board,pad per pin with 2*2mm solder pad areas
- 2.Thermal resistance junction to case, lead and ambient in accordance with JESD-51.
- 3.The typical data above is for reference only.

*This product The above data sheet typical data meet the Mentioned standards,designers for reference only

Ordering Information (Example)

Prefered P/N	Package code	Unit weight(g)	Minimum Package(pcs)	Inner box Quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
SMB DO-214AA	F1	about 0.096	3000	6000	48000	13' reel

RATINGS AND CHARACTERISTIC CURVES

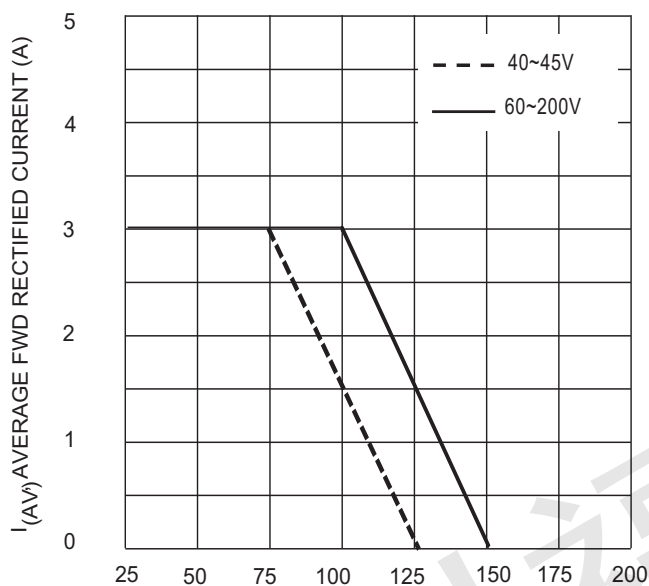


Fig. 1 Forward Derating Curve

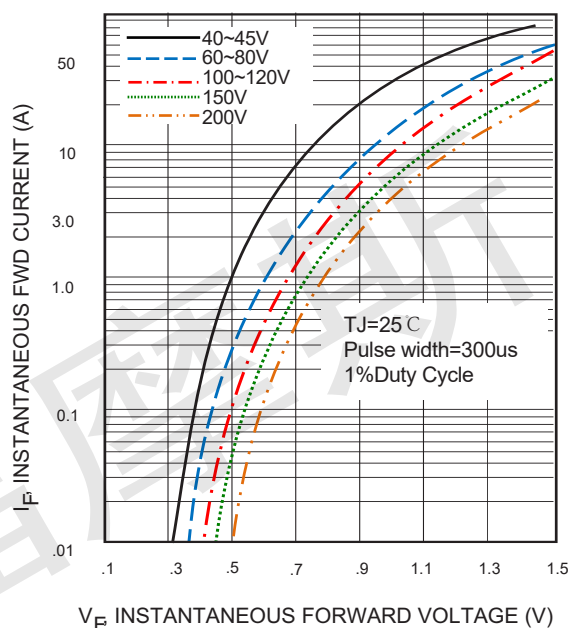


Fig. 2 Typical Forward Characteristics

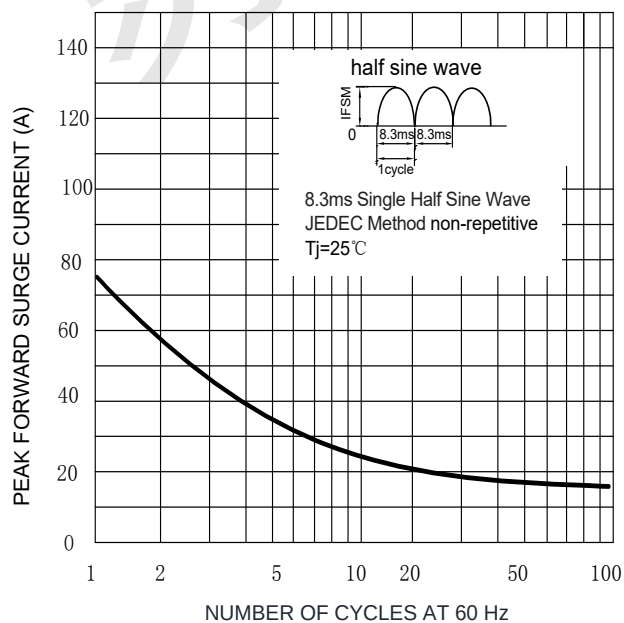


Fig. 3 Peak Forward Surge Current

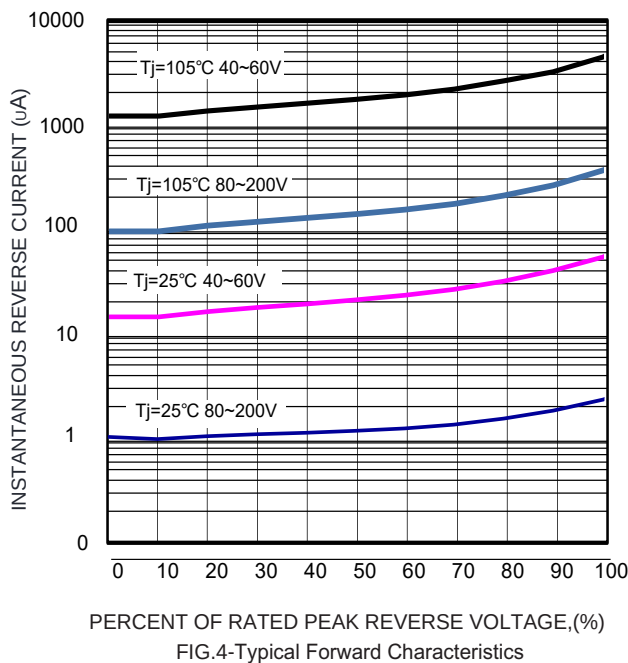


FIG.4-Typical Forward Characteristics