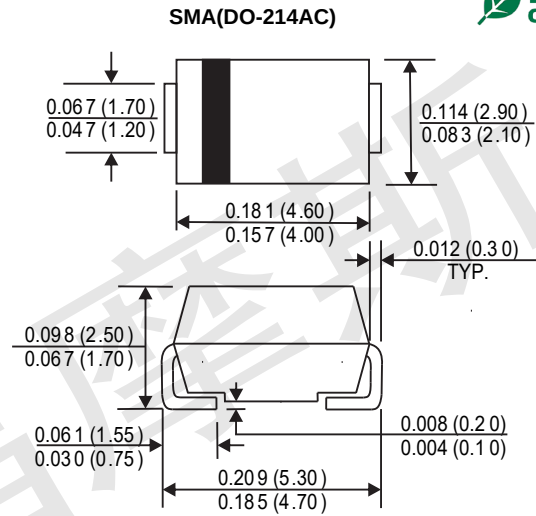


Features And Mechanical Data

- 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 SMA molded plastic body



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	SS14	SS145	SS16	SS18	SS110	SS115	SS120	Units
			SK14	SK145	SK16	SK18	SK110	SK115	SK120	
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)	1.0							A
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)		IFSM	28							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:

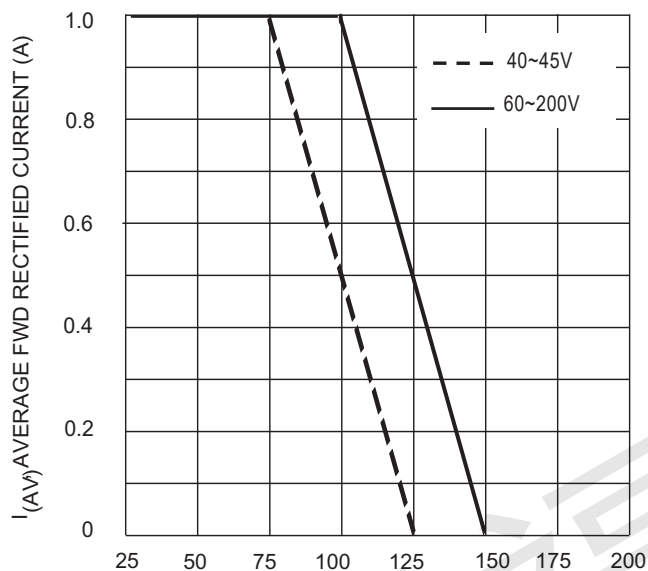
(1)Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad are

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

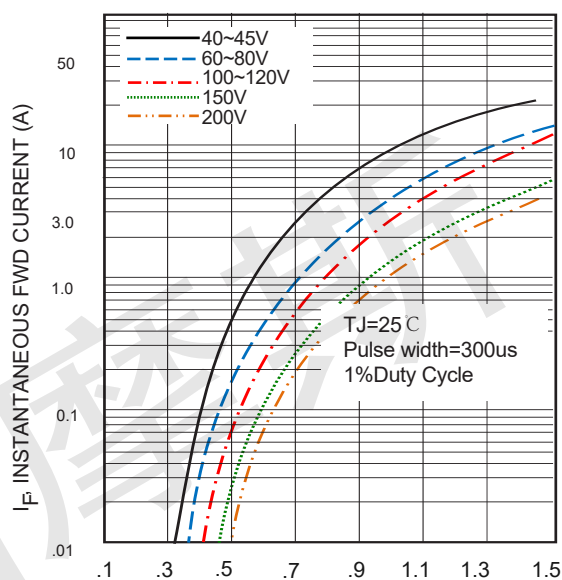
Ordering Information (Example)

Preferred P/N	Package code	Unit weight(g)	Minimum Package(pcs)	Inner box Quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
SMAF SMA DO-214AC	F1	Approximate 0.034	3000	12000	96000	7" reel
	F2	Approximate 0.034	10000	20000	160000	13" reel
	F3	Approximate 0.034	7500	15000	120000	13" reel

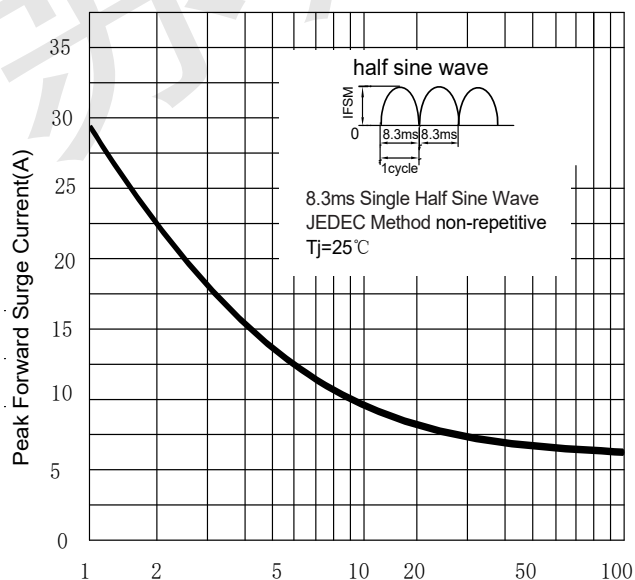
RATINGS AND CHARACTERISTIC CURVES



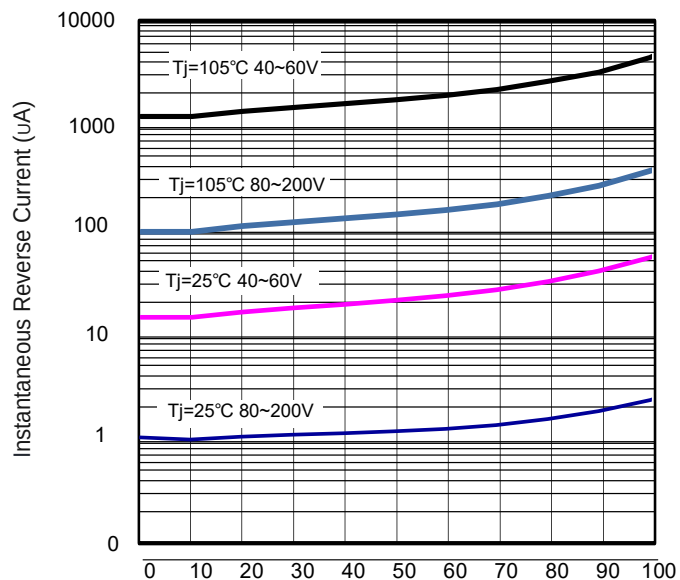
TC, CASE TEMPERATURE (°C)
Fig. 1 Forward Derating Curve



V_F INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60 Hz
Fig. 3 Peak Forward Surge Current



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)
Fig. 4 Typical Reverse Characteristics