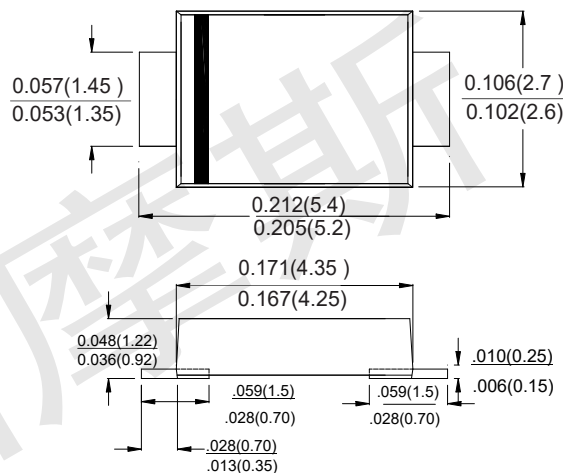


Features And Mechanical Data

- 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/10 seconds, per JESD 22-B106 or MIL-STD-750,method 2026
- Case: JEDEC SMA(DO-214AC) 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%.

	Symbols	SS34 AFL	SS345 AFL	SS36 AFL	SS38 AFL	SS310 AFL	SS312 AFL	SS315 AFL	SS320 AFL	Units
Device Marking		SS34L	SS345L	SS36L	SS38L	SS310L	SS312L	SS315L	SS320L	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	60	80	100	120	150	200	Volts
Maximum RMS Voltage	V _{RMS}	28	31.5	42	56	70	84	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	40	45	60	80	100	120	150	200	Volts
Maximum Average Forward Rectified Current. Lead Length @Ta(Fig 1)	I _(AV)	3.0								Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method) (Rating of per diode)	I _{FSM}	80								Amp
Maximum instantaneous forward voltage at I _(AV)	V _F	0.45		0.60	0.76			0.84	0.88	Volts
Maximum DC reverse current at rated DC blocking voltage per T _j =25°C T _j =100°C	I _R	0.2			0.1					mA
		50			10					
Typical Thermal Resistance	R _{θJL}	22								°C/W
Junction Temperature	T _J	-65 to +150								°C
Storage Temperature Range	T _{STG}	-65 to +150								°C

Ordering Information (Example)

Prefered 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
	F4	Approximate 0.034	7500	15000	120000	13" reel

RATINGS AND CHARACTERISTIC CURVES

