福摩斯 FU MO SI

Schottky Barrier Rectifier

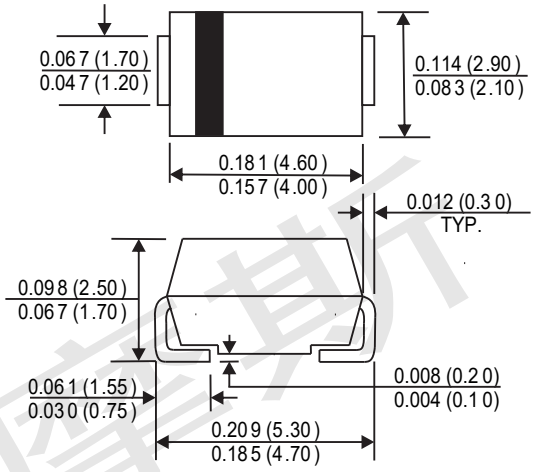
SS54AL THRU SS520AL 40 to 200 V 5.0A

RoHS COMPLIANT

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℃ MAX/10 seconds, per JESD 22-B106 or MIL-STD-750,method 2026
- Case: JEDEC SMA(DO-214AC) molded plastic body

SMA(DO-214AC)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

	Symbols	SS54L	SS545L	SS56L	SS58L	SS510L	SS512L	SS515L	SS520L	Units
Device Marking		SS54 AL	SS545 AL	SS56 AL	SS58 AL	SS510 AL	SS512 AL	SS515 AL	SS520 AL	
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)	$I_{(AV)}$	5.0								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	0.47		0.60	0.76			0.84	0.88	Volts
Maximum DC reverse current at rated DC blocking voltage per T_j=25℃	I_R	0.2			0.1					mA
T_j=100℃		50			10					
Typical Thermal Resistance	$R_{\Theta JL}$	22								℃/W
Junction Temperature	T_J	-65 to +150								℃
Storage Temperature Range	T_{STG}	-65 to +150								℃

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

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RATINGS AND CHARACTERISTIV CURVES

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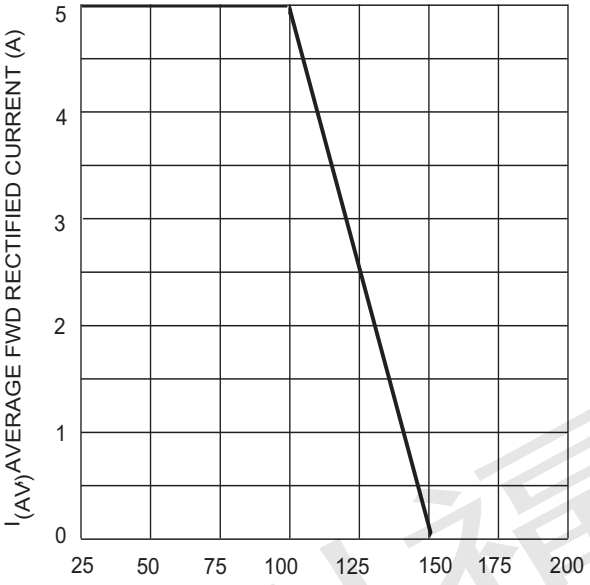


Fig. 1 Forward Derating Curve

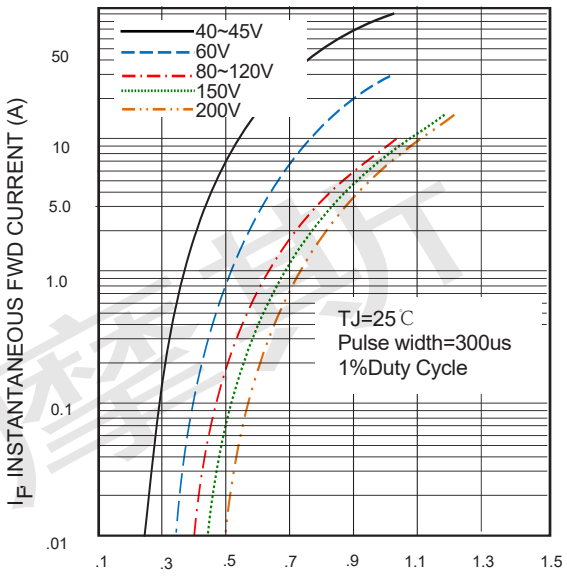


Fig. 2 Typical Forward Characteristics

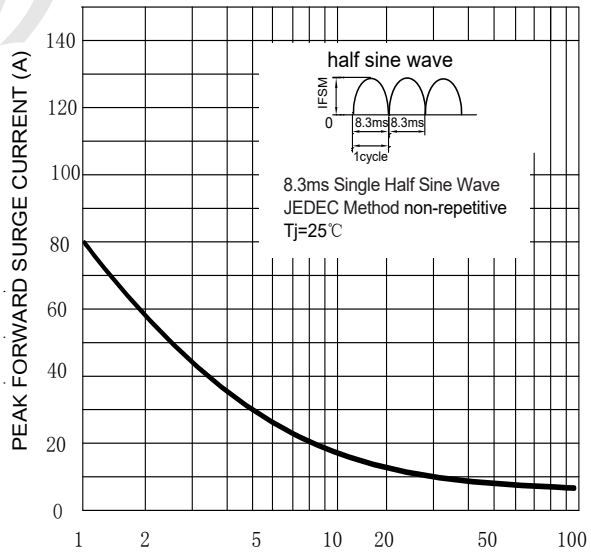


Fig. 3 Peak Forward Surge Current

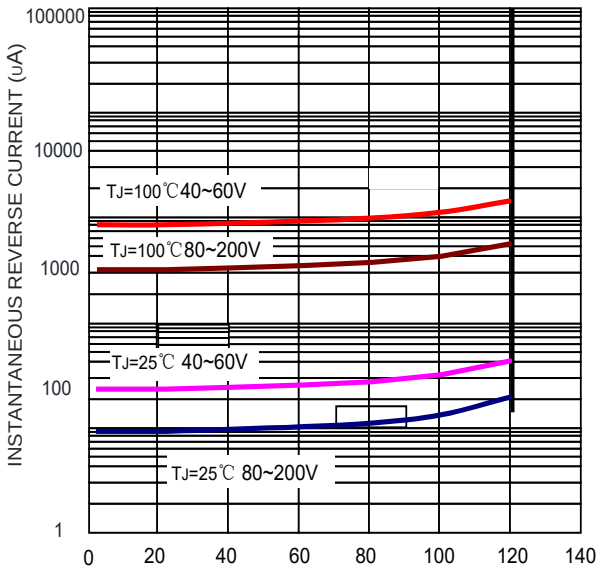


Fig.4-Typical Forward Characteristics

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