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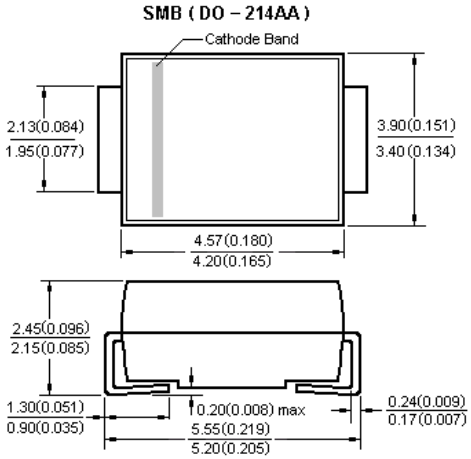
SS54L THRU SS520L

Surface Mount Low VF Schottky Rectifiers

Features

- Low profile package
- Ideal for automated placement
- Fast switching for high efficiency
- High forward surge capability
- High temperature soldering:
  260℃/10 seconds at terminals
- Component in accordance to
  RoHS 2002/95/1 and WEEE 2002/96/EC





Dimentsions in millimeters and (inchs)

Mechanical Date

- **Case:** JEDEC DO-214AA molded plastic body
- **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- **Polarity:** Laser band denotes cathode end

Maximum Ratings and Electrical Characteristics Rating at 25°C

ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	SYMBOL	SS 54L	SS 545L	SS 55L	SS 56L	SS 58L	SS 510L	SS 515L	SS 520L	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	28	31	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	40	60	60	60	80	100	150	200	V
Average Rectified Output Current @T_L =100℃	$IF_{(AV)}$	5.0								A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	110								A
Rating for fusing (t<8.3ms)	I^2t	50.22								A^2s
Forward Voltage @IF=5.0A	V_{FM}	0.45			0.5	0.6		0.85		V
Peak Reverse Current @T_A =25℃	I_R	0.2				0.1				mA
At Rated DC Blocking Voltage @T_A =100℃		10				5				
Typical Junction Capacitance (Note1)	C_J	300				180				pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	88								℃/W
Operating Temperature Range	T_J	-55 to+150								℃
Storage Temperature Range	T_{STG}	-55 to +150								℃

Note: 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
2. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad.

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Surface Mount Low VF Schottky Rectifiers

Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig. 1 Forward Current Derating Curve

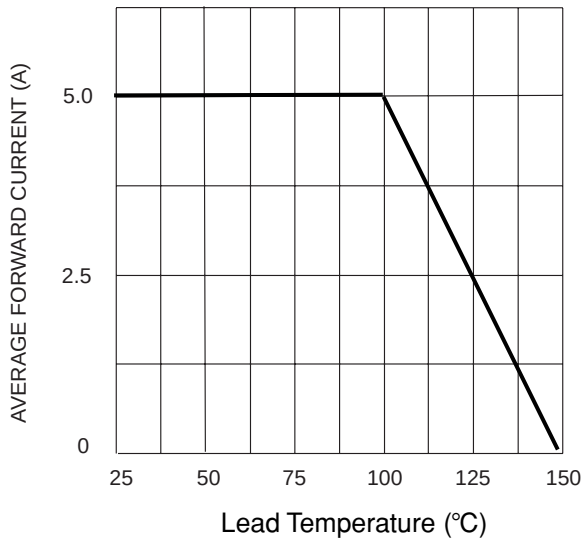


Fig. 2 Typ. Forward Characteristics

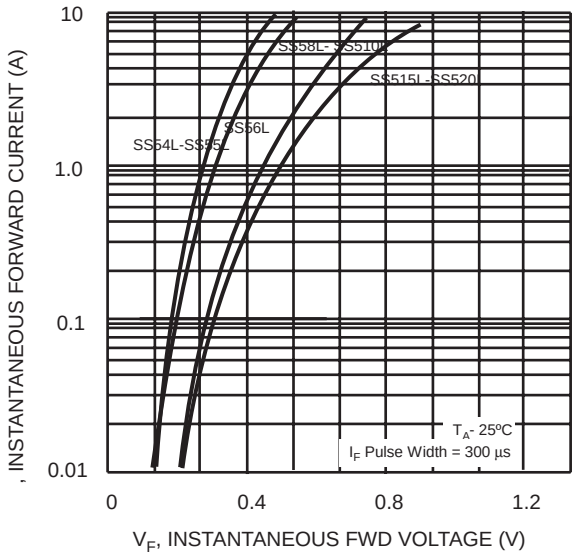


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

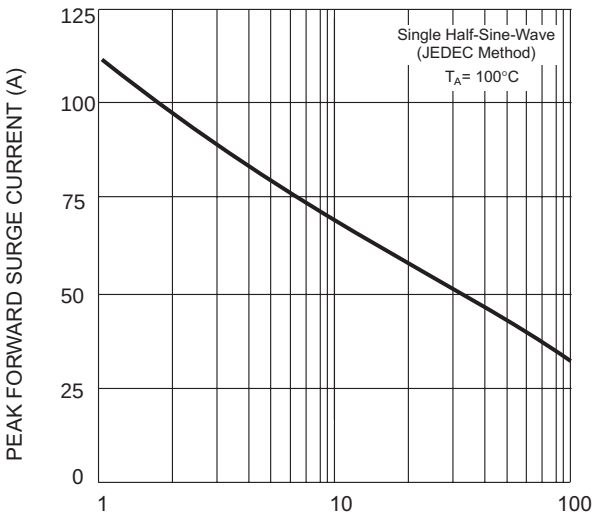
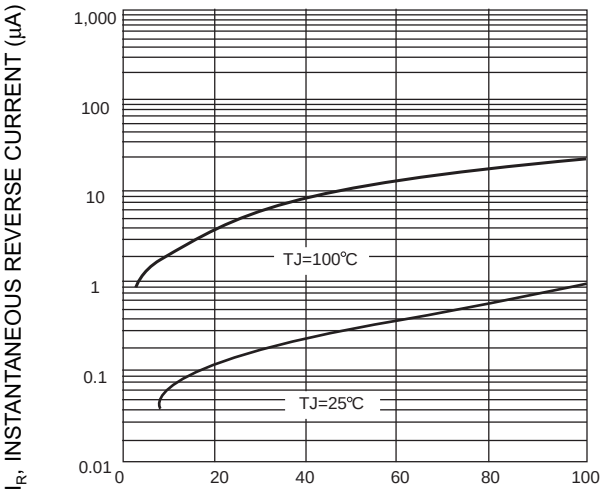


Fig. 4 T ypical Reverse Characteristics (per element)



SMA PAD LAYOUT

