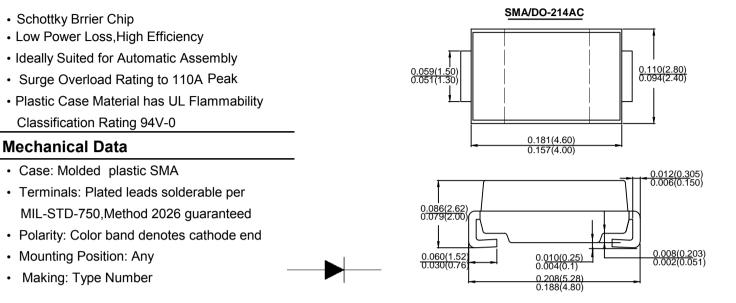


## SS54L THRU SS520L

### **5.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER**

#### Features



Dimensions in inches and (millimeters)

### **Maximum Ratings and Electrical Characteristics**

Rating 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	SYMBOL	SS 54L	SS 545L	SS 55L	SS 56L	SS 58L	SS 510L	SS 515L	SS 520L	Unit			
Maximum Recurrent Peak Reverse Voltage	VRRM	40	45	50	60	80	100	150	200	V			
Maximum RMS Voltage	VRMS	28	31	35	42	56	70	105	140	V			
Maximum DC Blocking Voltage	VDC	40	60	60	60	80	100	150	200	V			
Average Rectified Output Current @T <sub>L</sub> =100°C	IF(AV)	5.0								А			
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	110								А			
Rating for fusing (t<8.3ms)	l <sup>2</sup> t	50.22								A <sup>2</sup> s			
Forward Voltage @IF=5.0A (Note1)	VFM		0.45		0.5	0.6		0.85		V			
Peak Reverse Current @T <sub>A</sub> =25 °C		(	0.2			0.1				m			
At Rated DC Blocking Voltage @T <sub>A</sub> =100 °C	IR		10				5			- mA			
Typical Junction Capacitance	Сл	28								pF			
Typical Thermal Resistance per leg (Note 2)	Reja	88								°C /W			
Operating Temperature Range	ТJ	-55 to+150								°C			
Storage Temperature Range	Тѕтс	-55 to +150								°C			

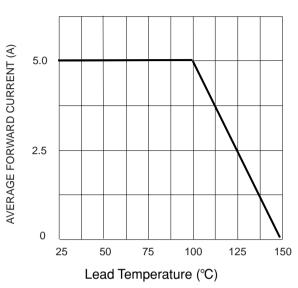
Note: 1.Pulse Test with PW=300usec,1%Duty Cycle.

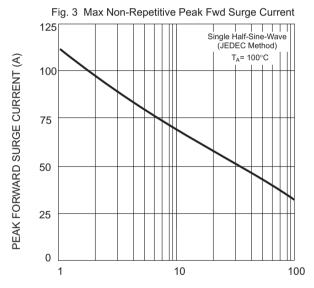
2.Mounted on P.C.Board with 5.0 mm<sup>2</sup> (0.13mm thick) copper pad areas.



### SS54L THRU SS520L

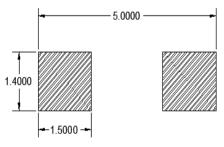






NUMBER OF CYCLES AT 60 Hz





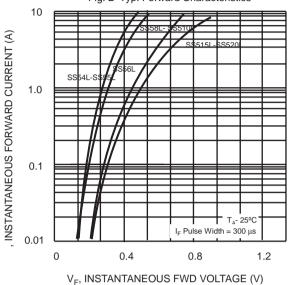
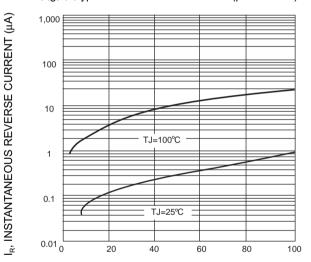


Fig. 2 Typ. Forward Characteristics

Fig. 4 T ypical Reverse Characteristics (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



# SS54L THRU SS520L

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