MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PLED

SS54L-MS

Product specification





FEATURES

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Low forward voltage drop

MACHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Metallurgically bonded construction
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.093 grams

VOLTAGE RANGE

40 Volts

CURRENT

5.0 Ampere

Reference News

PACKAGE OUTLINE	PIN CONFIGURATION	Marking
		SS54L
SMB		



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 C ambient temperature unless otherwies specified.

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

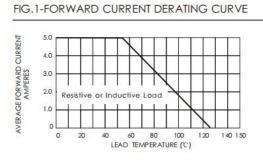
TYPE NUMBER		SS54L-MS	UNITS
Maximum Recurrent Peak Reverse Voltage		40	V
Maximum RMS Voltage		42	V
Maximum DC Blocking Voltage		40	V
Maximum Average Forward Rectified Current			
See Fig. 1		5.0	A
Peak Forward Surge Current, 8.3 ms single half sine-	wave		
superimposed on rated load (JEDEC method)		120	А
Maximum Instantaneous Forward Voltage at 2.0A		0.46	V
Maximum DC Reverse Current	Ta=25 C	0.2	mA
at Rated DC Blocking Voltage	Ta=125 [®] C	50	mA
Typical Junction Capacitance (Note1)		380	pF
Typical Thermal Resistance R JA (Note 2)		70	C/W
Operating Temperature Range TJ		-55 to +125	°C
Storage Temperature Range Tste		-55 to +125	"C

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. P.C.B. mounted with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



RATING AND CHARACTERISTIC CURVES (SS54L-MS)





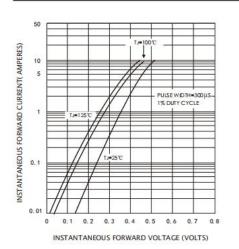


FIG.5-TYPICAL JUNCTION CAPACITANCE

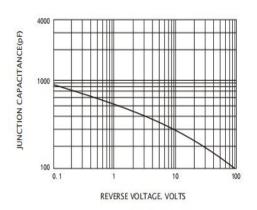


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

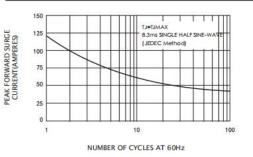
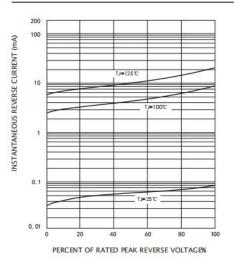


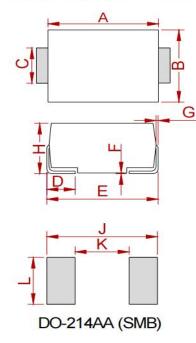
FIG.4-TYPICAL REVERSE CHARACTERISTICS





PACKAGE MECHANICAL DATA

PACKAGE MECHANICAL DATA



	Dimensions			
Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
А	4.25	4.75	0.167	0.187
В	3.30	3.94	0.130	0.155
С	1.85	2.21	0.073	0.087
D	0.76	1.52	0.030	0.060
E	5.08	5.59	0.200	0.220
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
Н	2.11	2.44	0.083	0.096
J	6.80		0.270	
К		2.60		0.100
L	2.40		0.090	

REEL SPECIFICATION

P/N	PKG	QTY
SS54L-MS	SMB	3000

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