



Micro Commercial Components



Micro Commercial Components
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SL54 THRU SL510

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High Surge forward current capability
- Extremely Low Thermal Resistance
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 15°C/W Junction To Lead
33°C/W Junction To Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SL54	SL54	40V	28V	40V
SL56	SL56	60V	42V	60V
SL510	SL510	100V	70V	100V

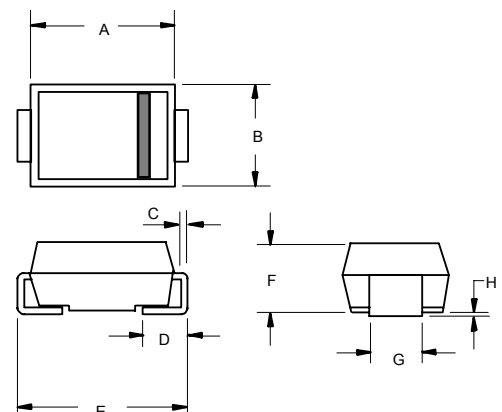
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	5.0A	$T_A = 75^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	.45V .50V .70V	$I_{FM} = 5.0\text{A};$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	.5mA	$T_J = 25^\circ\text{C}$
Typical Junction Capacitance	C_J	670pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

Note:1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a.

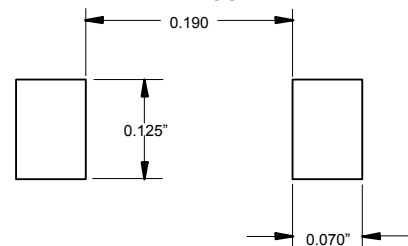
5 Amp Low VF Schottky Rectifier 40~100 Volts

DO-214AB (SMC) (LEAD FRAME)



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.260	.280	6.60	7.11	
B	.220	.245	5.59	6.22	
C	.006	.012	0.15	0.31	
D	.030	.060	0.76	1.52	
E	.305	.320	7.75	8.13	
F	.079	.103	2.00	2.62	
G	.108	.128	2.75	3.25	
H	.002	.008	0.050	0.203	

SUGGESTED SOLDER PAD LAYOUT



Characteristics(Typical)

FIG1 Forward Current Dearth Curve

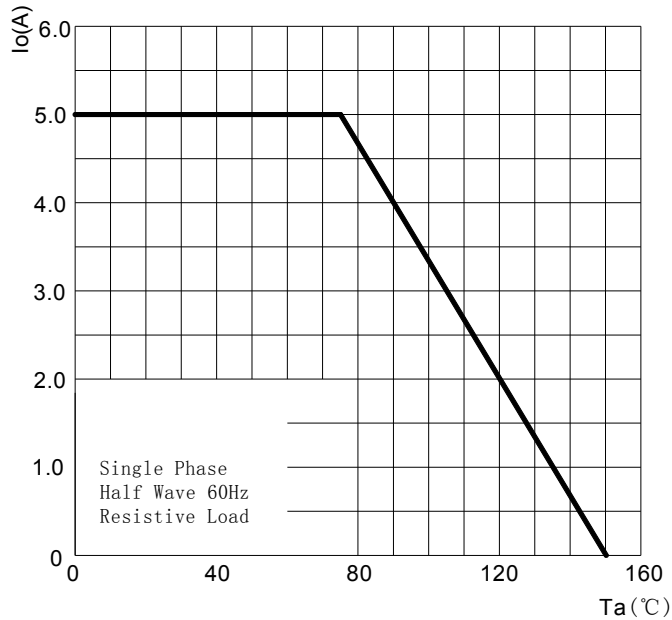


FIG2: Surge Forward Current Capacity

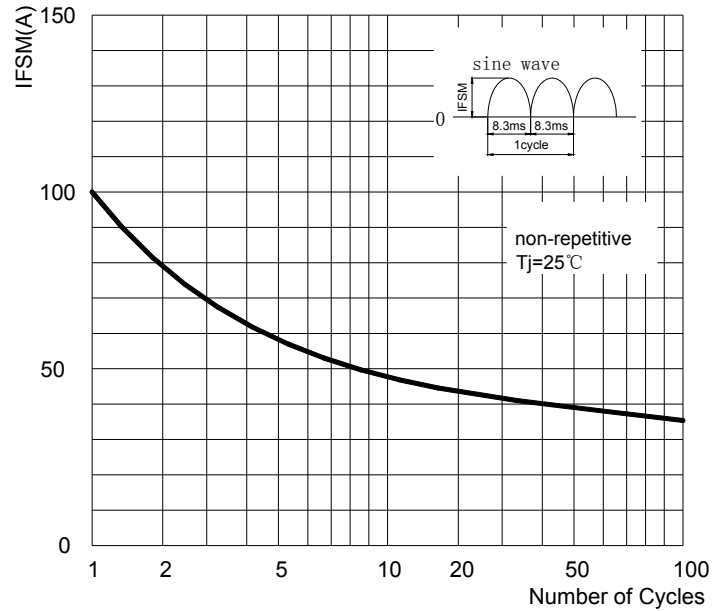


FIG3: Forward Voltage

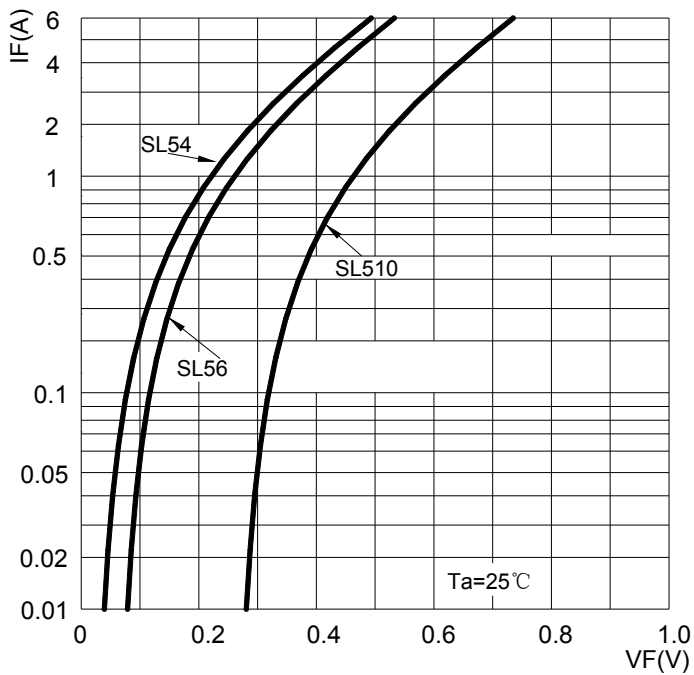
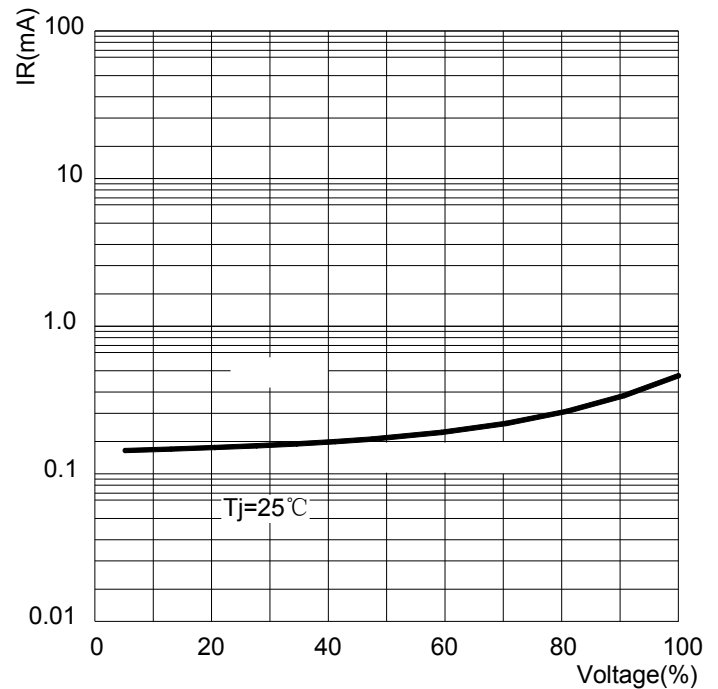


FIG4: Typical Reverse Characteristics



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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