



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"

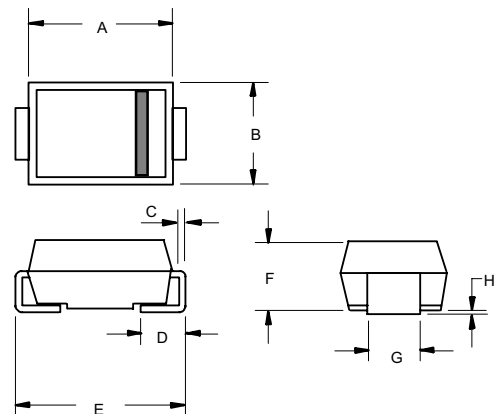
Maximum Ratings

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

| 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 |

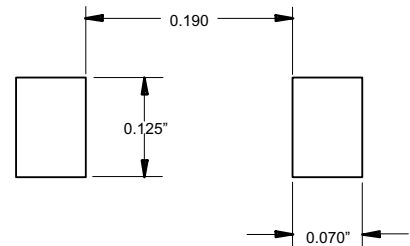
5 Amp Low VF Schottky Rectifier 40~100 Volts

DO-214AB (SMC) (LEAD FRAME)



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|-------|-------|------|
| | INCHES | | MM | | |
| 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



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 | $I_{FM} = 5.0A;$ $T_a = 25^\circ\text{C}$ |
| SL54 | | | |
| SL56 SL510 | | | |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | .5mA | $T_a = 25^\circ\text{C}$ |

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

Characteristics(Typical)

FIG1 Forward Current Dearing Curve

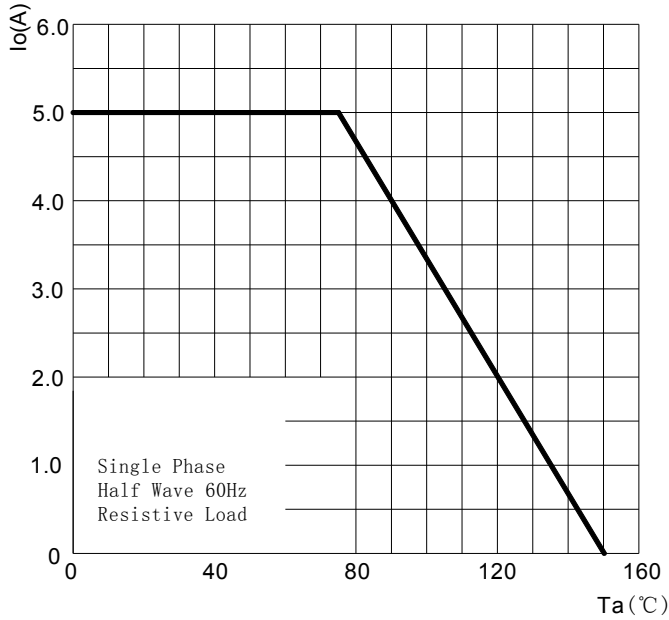


FIG2: Surge Forward Current Capadity

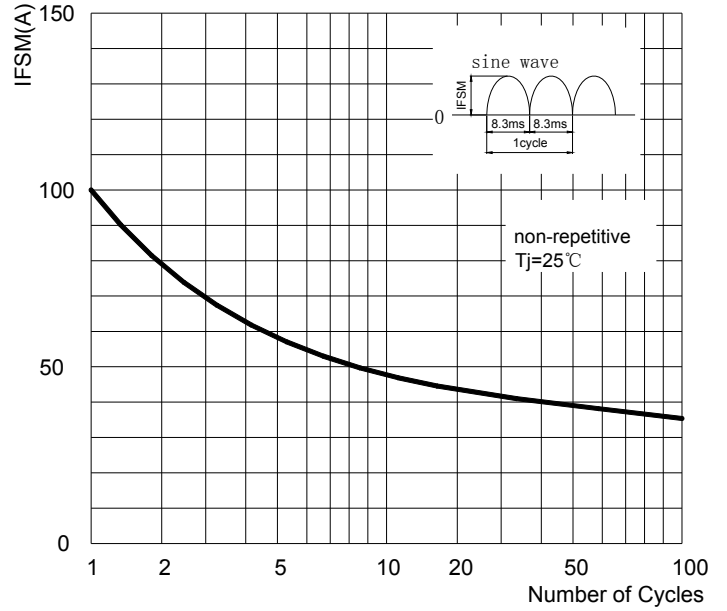


FIG3: Forward Voltage

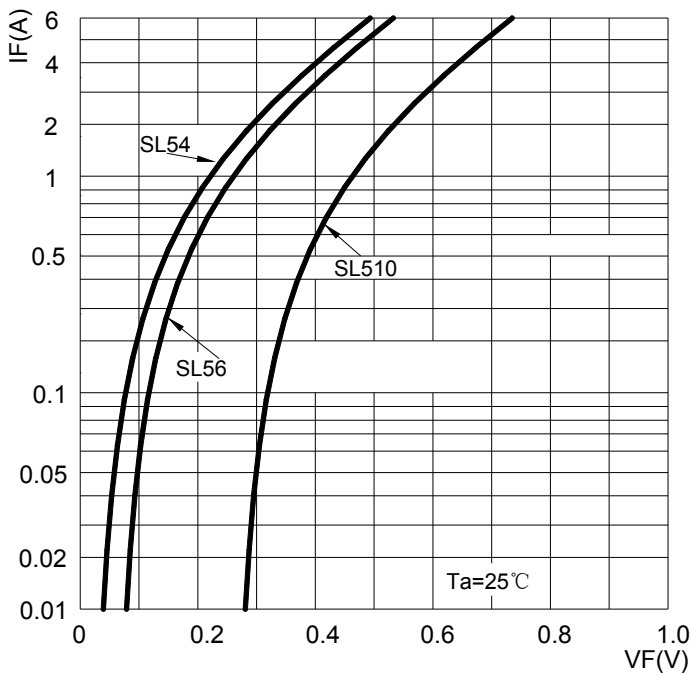
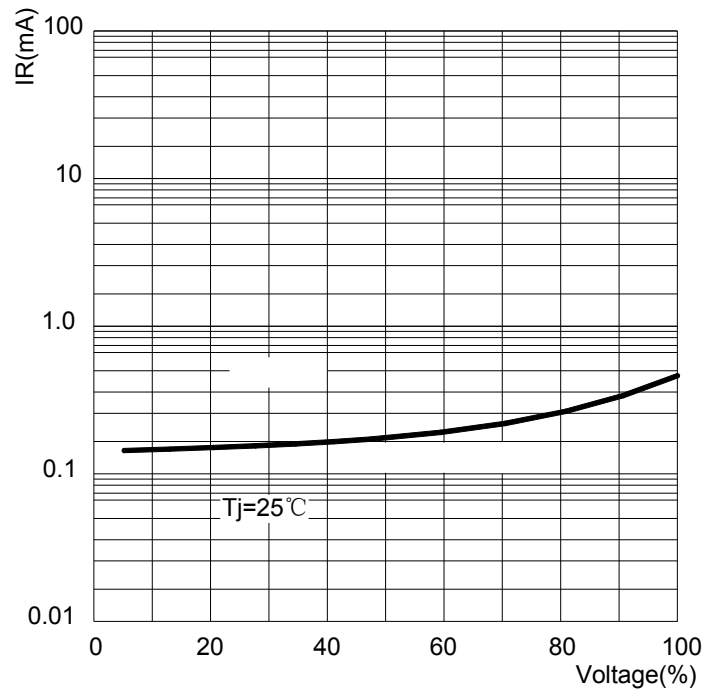


FIG4: Typical Reverse Characteristics





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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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