



Micro Commercial Components



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20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

SK22-L THRU SK220-L

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Low Forward Voltage
- Guard Ring Protection
- High Current Capability
- Extremely Low Thermal Resistance

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: RthjL-15°C/W; Rthja-71°C/W

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| SK22-L | SK22 | 20V | 14V | 20V |
| SK23-L | SK23 | 30V | 21V | 30V |
| SK24-L | SK24 | 40V | 28V | 40V |
| SK25-L | SK25 | 50V | 35V | 50V |
| SK26-L | SK26 | 60V | 42V | 60V |
| SK28-L | SK28 | 80V | 56V | 80V |
| SK210-L | SK210 | 100V | 70V | 100V |
| SK2150-L | SK2150 | 150V | 105V | 150V |
| SK220-L | SK220 | 200V | 140V | 200V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

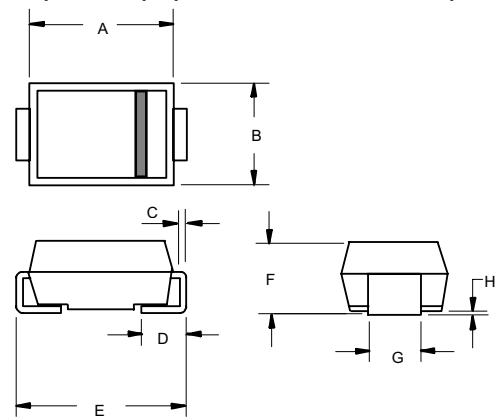
| | | | |
|---|-------------|--|---|
| Average Forward Current | $I_{F(AV)}$ | 2.0A | $T_L = 105^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 50A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V_F | SK22-SK24 SK25-SK26 SK28-SK210 SK2150-SK220 | $I_{FM} = 2.0A$; $T_J = 25^\circ\text{C}^*$ |
| | | .50V | |
| | | .70V | |
| | | .85V | |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | SK22-SK24 SK25-SK210 SK2150-SK220 | $T_J = 25^\circ\text{C}$ |
| | | 2.0 mA | |
| | | 1.0 mA | |
| | | 0.5 mA | |
| Typical Junction Capacitance | C_J | SK22 SK23-SK210 SK2150-SK220 | Measured at 1.0MHz, $V_R=4.0V$ |
| | | 230pF | |
| | | 50pF | |
| | | 170 pF | |

*Pulse test: Pulse width 300 μsec , Duty cycle 2%

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

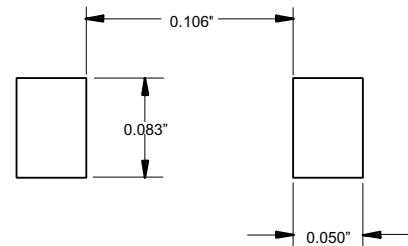
2 Amp Schottky Rectifier 20 to 200 Volts

DO-214AA (SMB) (LEAD FRAME)



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .160 | .185 | 4.06 | 4.70 | |
| B | .130 | .155 | 3.30 | 3.94 | |
| C | .006 | .012 | 0.15 | 0.31 | |
| D | .030 | .060 | 0.76 | 1.52 | |
| E | .200 | .220 | 5.08 | 5.59 | |
| F | .079 | .096 | 2.00 | 2.44 | |
| G | .075 | .087 | 1.91 | 2.21 | |
| H | .002 | .008 | 0.05 | 0.203 | |

SUGGESTED SOLDER PAD LAYOUT



SK22-L thru SK210-L

Rating and Characteristic Curves

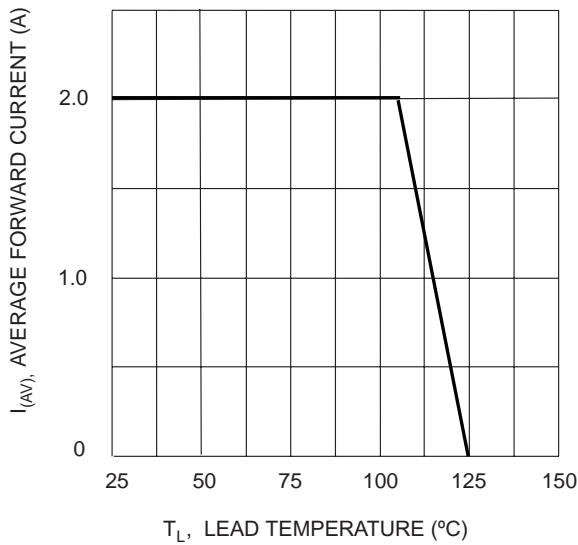


Fig. 1 Forward Current Derating Curve

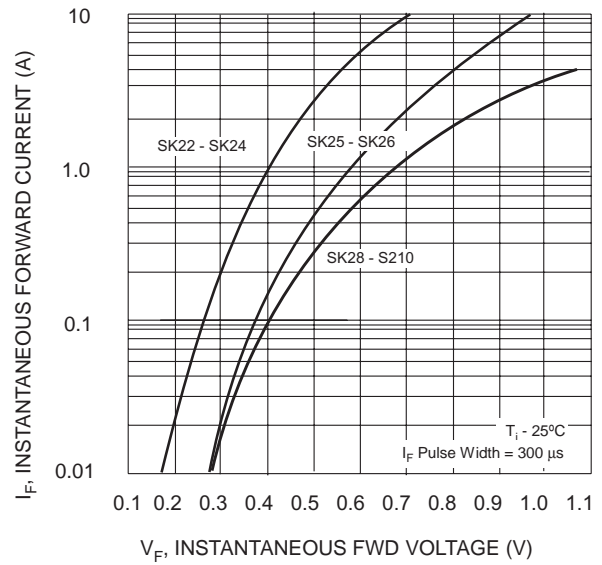


Fig. 2 Typ. Forward Characteristics

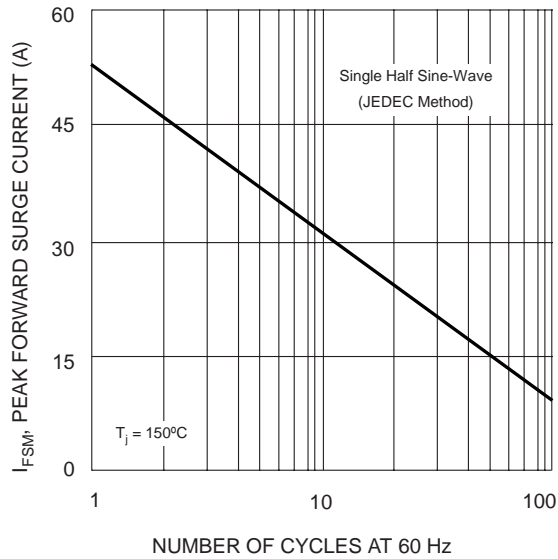


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

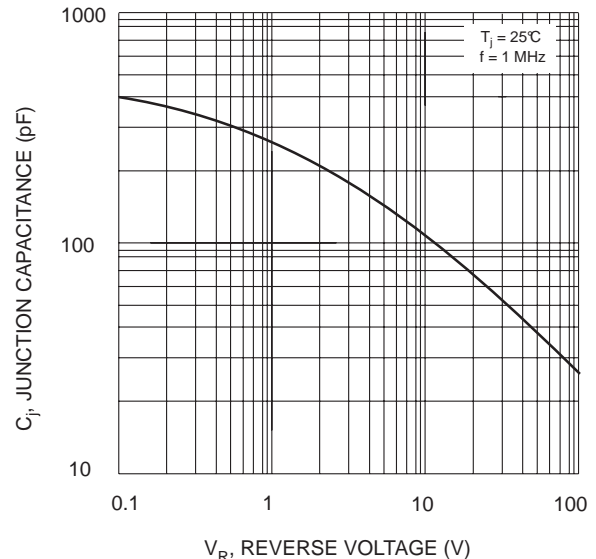


Fig. 4 Typical Junction Capacitance

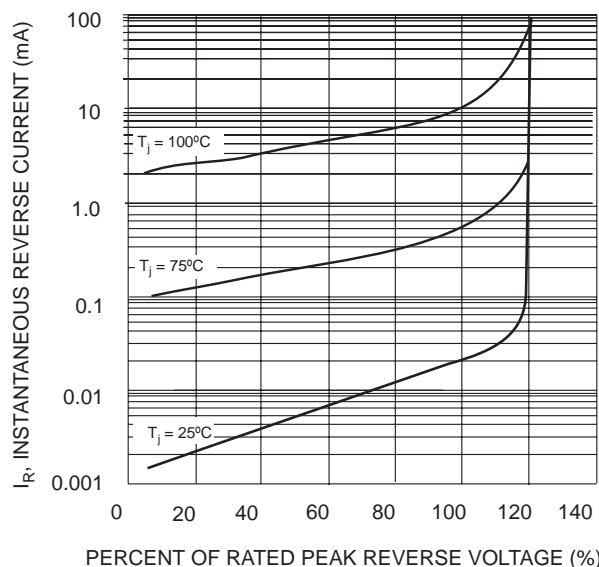


Fig. 5 Typical Reverse Characteristics

SK2150-L thru SK220-L

Rating and Characteristic Curves

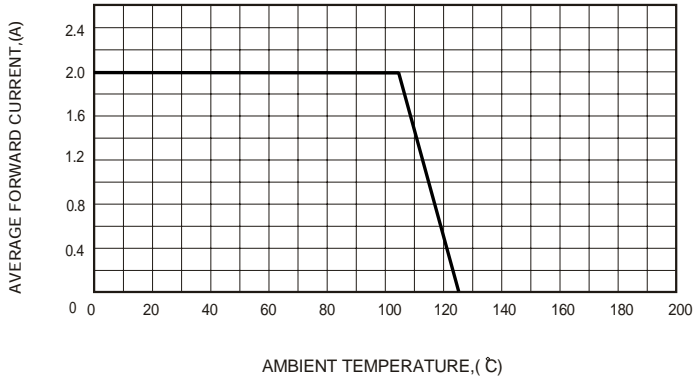


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

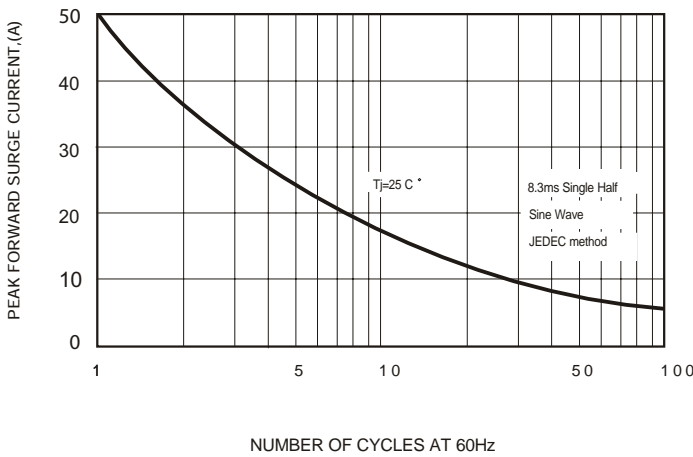


FIG.4-TYPICAL JUNCTION CAPACITANCE

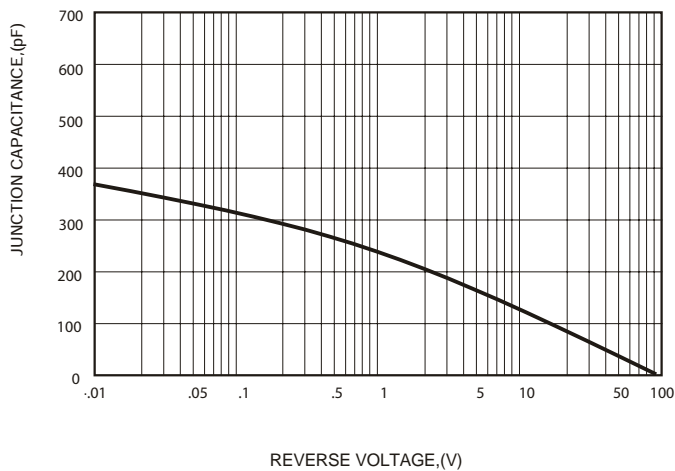


FIG.2-TYPICAL FORWARD CHARACTERISTICS

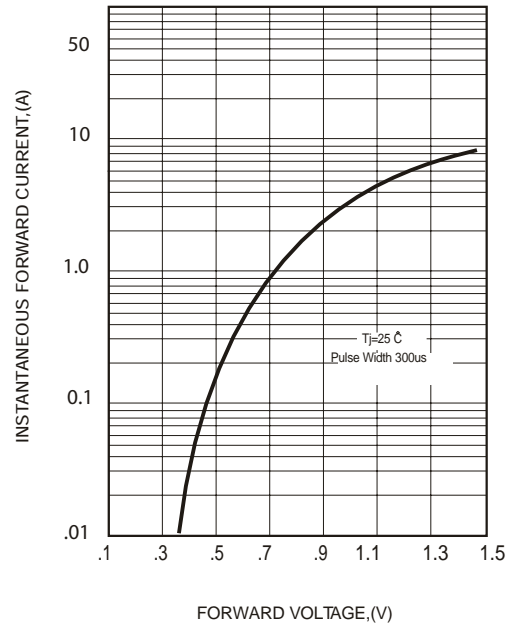
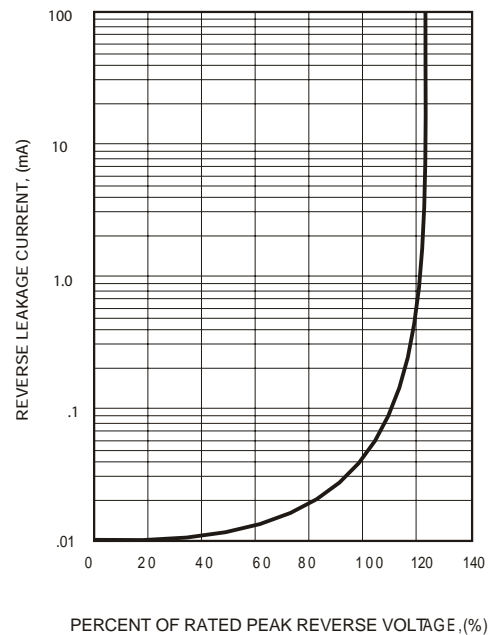


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





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Ordering Information :

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

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.