

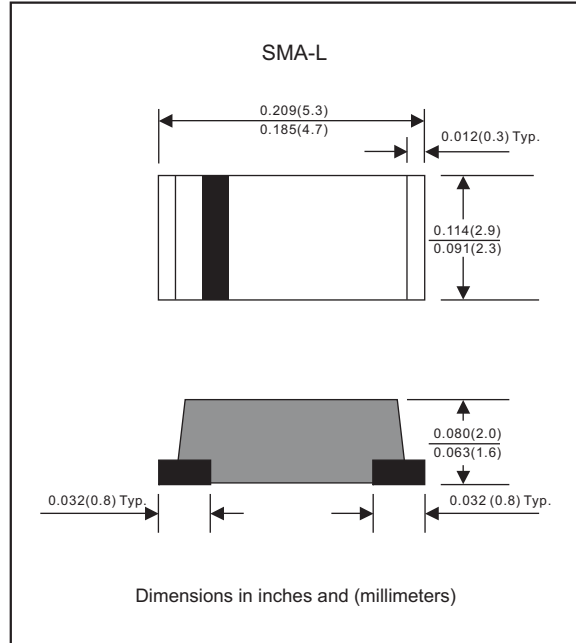
### Features

- Batch process design, excellent power dissipation offers better reverse leakage current and thermal resistance.
- Low profile surface mounted application in order to optimize board space.
- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- High surge capability.
- Guardring for overvoltage protection.
- Ultra high-speed switching.
- Silicon epitaxial planar chip, metal silicon junction.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228
- Suffix "-H" indicates Halogen free parts, ex. AS220-L-H.

### Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, DO-214AC / SMA-L
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Mounting Position : Any
- Weight : Approximated 0.05 gram

### Package outline



### Maximum ratings and Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

| PARAMETER                  | CONDITIONS                                    | Symbol          | MIN. | TYP. | MAX. | UNIT               |
|----------------------------|---|-----------------|------|------|------|--------------------|
| Forward rectified current  | See Fig.1                                     | $I_o$           |      |      | 2.0  | A                  |
| Forward surge current      | 8.3ms single half sine-wave (JEDEC methode)   | $I_{FSM}$       |      |      | 50   | A                  |
| Reverse current            | $V_R = V_{RRM} \quad T_J = 25^\circ\text{C}$  | $I_R$           |      |      | 0.5  | mA                 |
|                            | $V_R = V_{RRM} \quad T_J = 100^\circ\text{C}$ |                 |      |      | 10   |                    |
| Thermal resistance         | Junction to ambient                           | $R_{\theta JA}$ |      | 62   |      | $^\circ\text{C/W}$ |
|                            | Junction to case                              | $R_{\theta JC}$ |      | 31   |      | $^\circ\text{C/W}$ |
| Diode junction capacitance | f=1MHz and applied 4V DC reverse voltage      | $C_J$           |      | 160  |      | pF                 |
| Storage temperature        |   | $T_{STG}$       | -65  |      | +175 | $^\circ\text{C}$   |

| SYMBOLS  | $V_{RRM}^{*1}$<br>(V) | $V_{RMS}^{*2}$<br>(V) | $V_R^{*3}$<br>(V) | $V_F^{*4}$<br>(V) | Operating temperature<br>$T_J$ ( $^\circ\text{C}$ ) |
|----------|-----------------------|-----------------------|-------------------|-------------------|---|
| AS220-L  | 20                    | 14                    | 20                | 0.50              | -55 to +125   |
| AS230-L  | 30                    | 21                    | 30                |                   |   |
| AS240-L  | 40                    | 28                    | 40                |                   |   |
| AS250-L  | 50                    | 35                    | 50                | 0.70              | -55 to +150   |
| AS260-L  | 60                    | 42                    | 60                |                   |   |
| AS280-L  | 80                    | 56                    | 80                | 0.85              |   |
| AS2100-L | 100                   | 70                    | 100               |                   |   |
| AS2150-L | 150                   | 105                   | 150               | 0.90              |   |
| AS2200-L | 200                   | 140                   | 200               | 0.92              |   |

\*1 Repetitive peak reverse voltage

\*2 RMS voltage

\*3 Continuous reverse voltage

\*4 Maximum forward voltage@ $I_F=2.0A$

## Rating and characteristic curves (AS220-L THRU AS2200-L)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

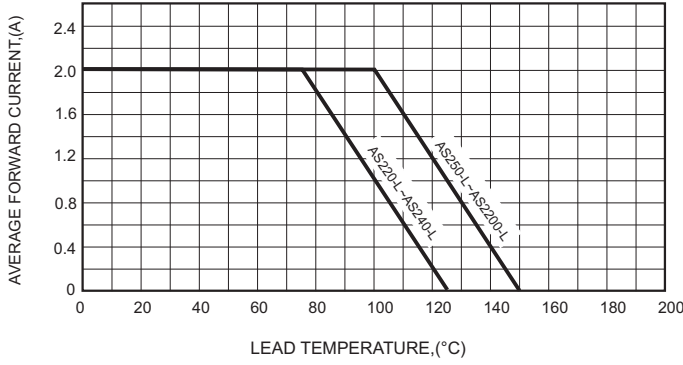


FIG.2-TYPICAL FORWARD CHARACTERISTICS

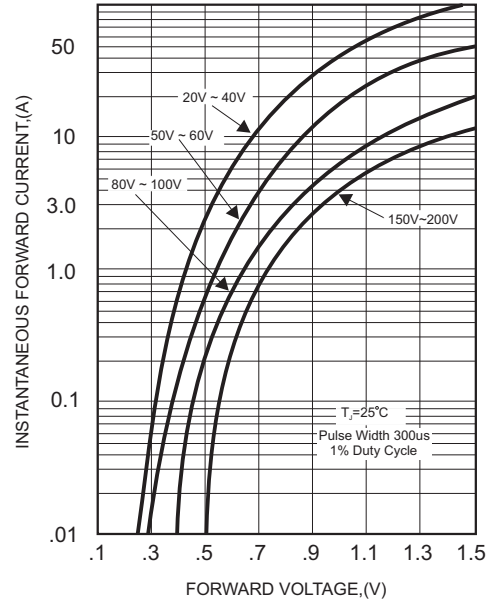


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

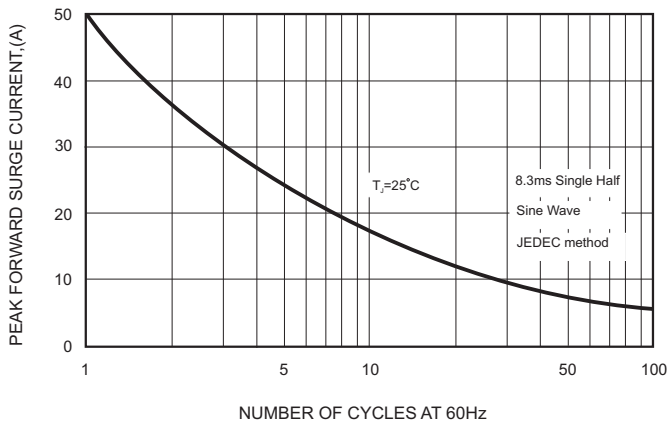


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

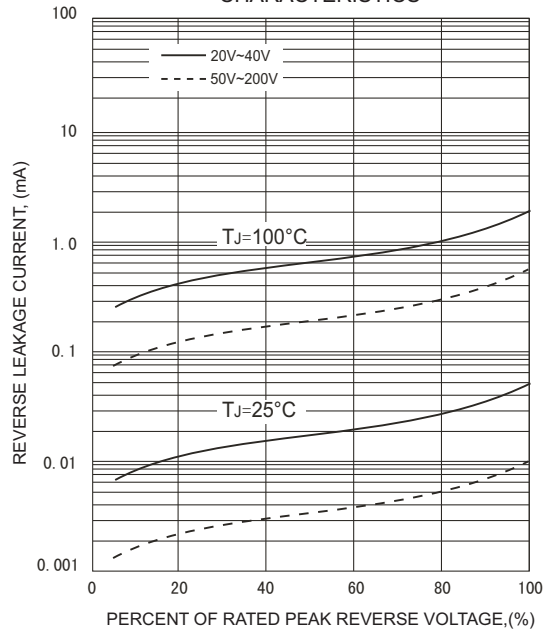
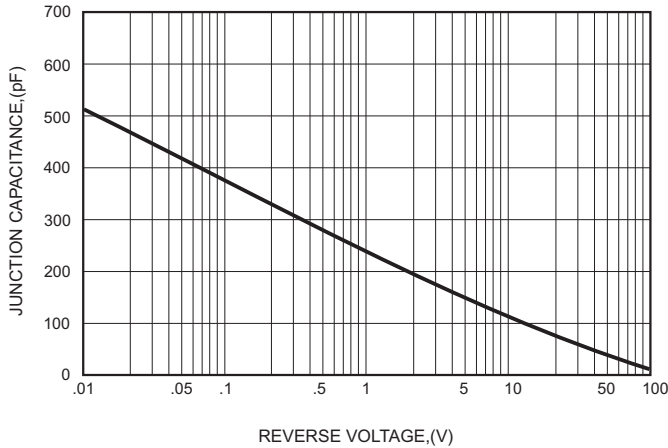




FIG.4-TYPICAL JUNCTION CAPACITANCE



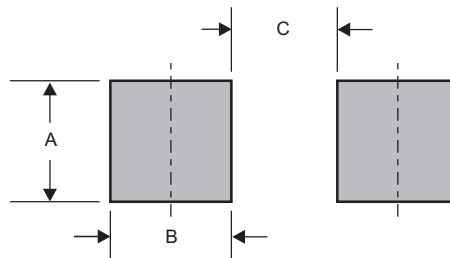
### Pinning information

| Pin                        | Simplified outline  | Symbol  |
|----------------------------|---|---|
| Pin1 cathode<br>Pin2 anode |  |  |

### Marking

| Type number | Marking code |
|-------------|--------------|
| AS220-L     | SK22         |
| AS230-L     | SK23         |
| AS240-L     | SK24         |
| AS250-L     | SK25         |
| AS260-L     | SK26         |
| AS280-L     | SK28         |
| AS2100-L    | S210         |
| AS2150-L    | S215         |
| AS2200-L    | S220         |

### Suggested solder pad layout



Dimensions in inches and (millimeters)

| PACKAGE | A            | B            | C            |
|---------|--------------|--------------|--------------|
| SMA-L   | 0.110 (2.80) | 0.059 (1.50) | 0.110 (2.80) |

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Schottky Diodes & Rectifiers](#) category:*

*Click to view products by [AnBon](#) manufacturer:*

Other Similar products are found below :

[CUS06\(TE85L,Q,M\)](#) [MA4E2039](#) [D1FH3-5063](#) [MBR0530L-TP](#) [MBR10100CT-BP](#) [MBR30H100MFST1G](#) [MMBD301M3T5G](#) [PMAD1103-LF](#) [PMAD1108-LF](#) [RB160M-50TR](#) [RB520S-30](#) [RB551V-30](#) [DD350N18K](#) [DZ435N40K](#) [DZ600N16K](#) [BAS16E6433HTMA1](#) [BAS 3010S-02LRH E6327](#) [BAT 54-02LRH E6327](#) [IDL02G65C5XUMA1](#) [NSR05F40QNXT5G](#) [NSVR05F40NXT5G](#) [JANS1N6640](#) [SB07-03C-TB-H](#) [SB1003M3-TL-W](#) [SBAT54CWT1G](#) [SBM30-03-TR-E](#) [SBS818-TL-E](#) [SK32A-LTP](#) [SK33A-TP](#) [SK34A-TP](#) [SK34B-TP](#) [SMD1200PL-TP](#) [ACDBN160-HF](#) [SS3003CH-TL-E](#) [STPS30S45CW](#) [PDS3100Q-7](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM\)](#) [MBR1240MFST1G](#) [MBRB30H30CT-1G](#) [BAS28E6433HTMA1](#) [BAS 70-02L E6327](#) [HSB123JTR-E](#) [JANTX1N5712-1](#) [VS-STPS40L45CW-N3](#) [DD350N12K](#) [SB007-03C-TB-E](#) [SB10015M-TL-E](#) [SB1003M3-TL-E](#) [SK110-LTP](#)