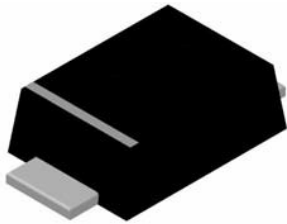


SOD-123FL


MARKING: SM

Features

- Low reverse leakage
- High Forward surge capability
- High reliability
- High temperature soldering guaranteed: 260°C/10S
- Lead and body according with Rohs standard

Mechanical Data

- SOD-123FL small outline plastic package
- Polarity: Color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting Position: Any

Maximum Ratings & Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

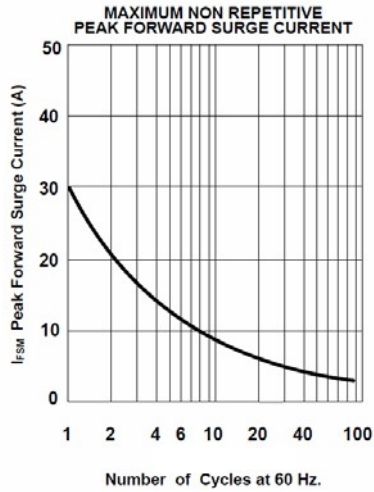
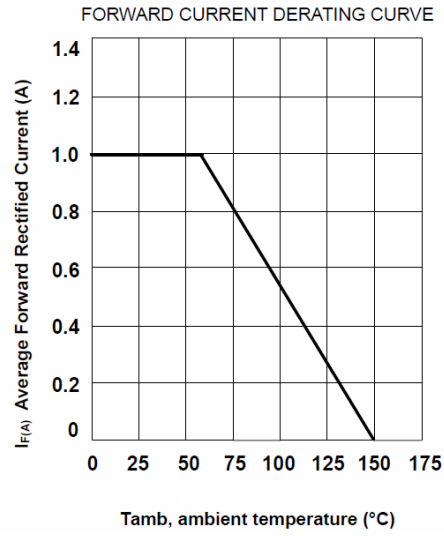
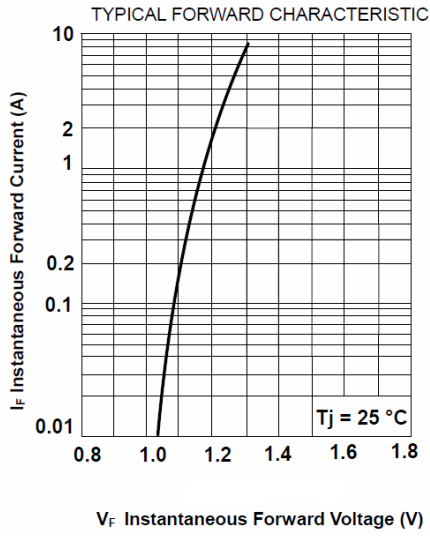
| Parameters | Symbol | A7 | Unit |
|---|----------|-----------|------|
| Maximum repetitive peak reverse voltage | VRRM | 1000 | V |
| Maximum RMS voltage | VRMS | 700 | V |
| Maximum DC blocking voltage | VDC | 1000 | V |
| Maximum average forward rectified current | IF(AV) | 1.0 | A |
| Non-repetitive Peak forward surge current 8.3 ms single half sine-wave | IFSM | 30 | A |
| Typical thermal resistance | RθJA | 45 | °C/W |
| Operation junction and Storage temperature range | Tj, TSTG | -55-+150 | °C |

Electrical Characteristics

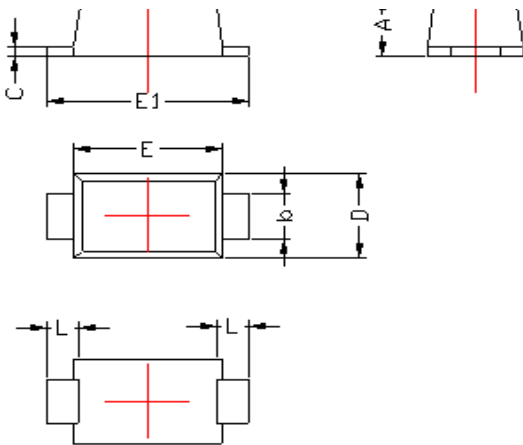
(Ratings at 25°C ambient temperature unless otherwise specified).

| Parameters | Symbol | A7 | Unit |
|---|--------|-----------|------|
| @IF=1.0A Max. forward voltage | VF | 1.1 | V |
| @VDC TA=25°C Max. reverse current TA=100°C | IR | 5 100 | uA |
| VR=4.0V, f=1MHz Type junction capacitance | Cj | 15 | pF |

Characteristic Curves



SOD-123FL PACKAGE OUTLINE Plastic surface mounted package



| SYMBOL | DIMENSIONS | |
|--------|------------|------|
| | MIN. | MAX. |
| A | 1.20 | 1.40 |
| b | 0.80 | 1.10 |
| C | 0.15 | 0.25 |
| D | 1.75 | 1.95 |
| E | 2.70 | 2.90 |
| E1 | 3.50 | 3.90 |
| L | 0.35 | 0.85 |

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Diodes - General Purpose, Power, Switching category:](#)

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

Other Similar products are found below :

[MCL4151-TR3](#) [MMBD3004S-13-F](#) [RD0306T-H](#) [RD0506LS-SB-1H](#) [RGP30G-E373](#) [DSE010-TR-E](#) [BAQ333-TR](#) [BAQ335-TR](#) [BAQ33-GS18](#) [BAS1602VH6327XT](#) [BAV17-TR](#) [BAV19-TR](#) [BAV301-TR](#) [BAW27-TAP](#) [HSC285TRF-E](#) [NSVBAV23CLT1G](#) [NTE525](#) [1SS181-TP](#) [1SS184-TP](#) [1SS193,LF](#) [1SS193-TP](#) [1SS400CST2RA](#) [SBAV99LT3G](#) [SDAA13](#) [LL4448-GS18](#) [SHN2D02FUTW1T1G](#) [LS4150GS18](#) [LS4151GS08](#) [SMMD7000LT3G](#) [FC903-TR-E](#) [1N4449](#) [1N4934-E3/73](#) [1SS226-TP](#) [APT100DL60HJ](#) [RFUH20TB3S](#) [RGP30G-E354](#) [RGP30M-E3/73](#) [D291S45T](#) [MCL4151-TR](#) [BAS 16-02V H6327](#) [BAS 21U E6327](#) [BAS 28 E6327](#) [BAS33-TAP](#) [BAS 70-02V H6327](#) [BAV300-TR](#) [BAV303-TR3](#) [BAW27-TR](#) [BAW56DWQ-7-F](#) [BAW56M3T5G](#) [BAW75-TAP](#)