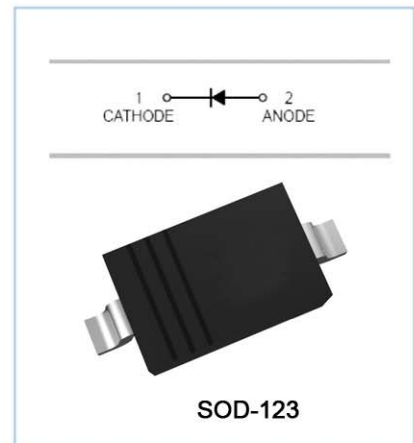


FEATURES

- Low Forward Voltage Drop.
- Guard Ring Construction For Transient Protection.
- Negligible Reverse Recovery Time.
- Low Reverse Capacitance.

APPLICATIONS

- Schottky barrier switching.



ORDERING INFORMATION

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| B0520W | SD | SOD-123 |
| B0530W | SE | SOD-123 |
| B0540W | SF | SOD-123 |

MAXIMUM RATING @ Ta=25°C unless otherwise specified

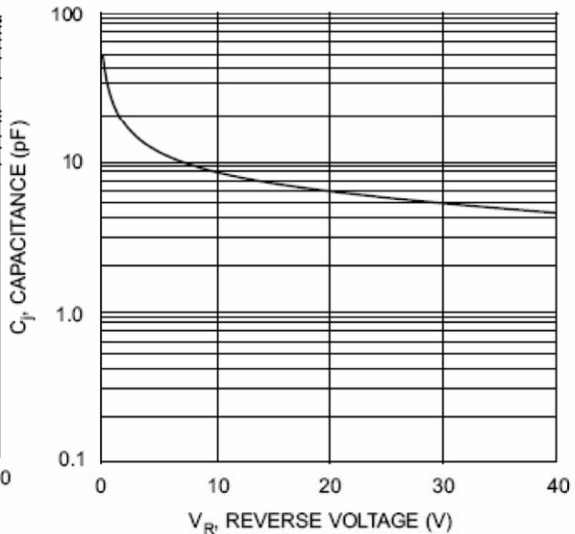
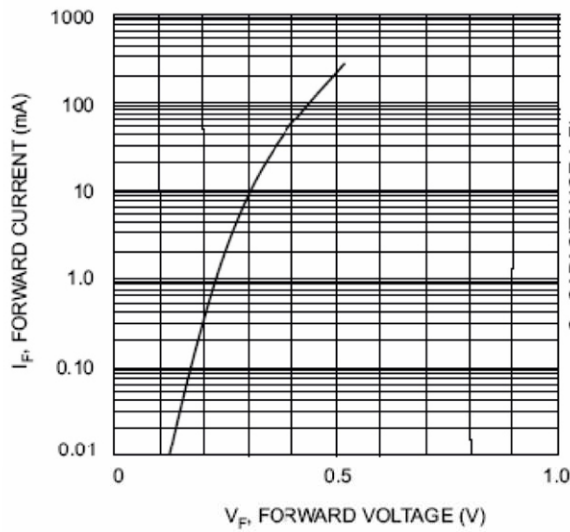
| Parameter | Symbol | B0540W | B0530W | B0520W | Unit |
|---|-----------------|----------|--------|--------|------|
| Peak Repetitive Peak reverse voltage | V_{RR} | | | | |
| Working Peak DC Reverse Voltage | V_{RWM} | 40 | 30 | 20 | V |
| | V_R | | | | |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 28 | 21 | 14 | V |
| Forward Continuous Current | I_F | 350 | | | mA |
| Repetitive Peak Forward Current @t≤1.0s | I_{FRM} | 1.5 | | | A |
| Power Dissipation | P_d | 400 | | | mW |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 300 | | | °C/W |
| Storage temperature | T_{stg} | -65~+125 | | | °C |

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-------------------------------|-------------|------|------|--------------|---------|--|
| Reverse Breakdown Voltage | $V_{(BR)R}$ | 40 | | | V | $I_R=10\mu A$ |
| | | 30 | | | | $I_R=10\mu A$ |
| | | 20 | | | | $I_R=10\mu A$ |
| Forward voltage | V_F | | | 0.37 0.60 | V | $I_F=20mA$ $I_F=200mA$ |
| Reverse current | I_{RM} | | | 5.0 | μA | $V_R=30V$ $V_R=20V$ $V_R=10V$ |
| Capacitance between terminals | C_T | | 50 | | pF | $V_R=0, f=1MHz$ |
| Reverse Recovery Time | t_{rr} | | 10 | | ns | $I_R=I_F=200mA$ $I_{rr}=0.1 \cdot I_R, R_L=100\Omega$ |

TYPICAL CHARACTERISTICS @ $T_a=25^\circ C$ unless otherwise specified



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[BAT 54-02LRH E6327](#) [NSR05F40QNXT5G](#) [NSVR05F40NXT5G](#) [NTE555](#) [JANS1N6640](#) [SB07-03C-TB-H](#) [SB1003M3-TL-W](#)
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