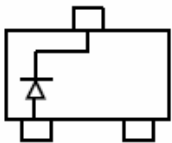
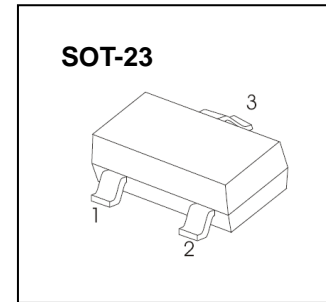


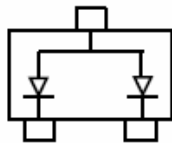
SCHOTTKY DIODES

FEATURES

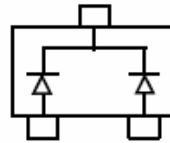
- Extremely Fast Switching Speed



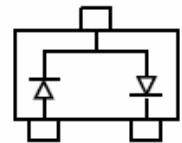
BAT54 MARKING: KL1



BAT54A MARKING: KL2



BAT54C MARKING: KL3



BAT54S MARKING: KL4

Maximum Ratings @T_A=25°C

| Parameter | Symbol | Limits | Unit |
|--------------------------------------|------------------|---------|------|
| Peak Repetitive Peak reverse voltage | V _{RRM} | 30 | V |
| Working Peak Reverse Voltage | V _{RWM} | | |
| DC Blocking Voltage | V _R | | |
| Forward Continuous Current | I _{FM} | 200 | mA |
| Power Dissipation | P _D | 200 | mW |
| Storage temperature | T _{STG} | -55-150 | °C |

Electrical Characteristics @T_A=25°C

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|---------------------------|--------------------|------|------|------|------|---|
| Reverse Breakdown Voltage | V _{(BR)R} | 30 | | | V | I _R =100μA |
| Forward voltage | V _{F1} | | | 0.24 | V | I _F =0.1mA |
| | V _{F2} | | | 0.32 | V | I _F =1mA |
| | V _{F3} | | | 0.40 | V | I _F =10mA |
| | V _{F4} | | | 0.50 | V | I _F =30mA |
| | V _{F5} | | | 1 | V | I _F =100mA |
| Reverse current | I _R | | | 2 | μA | V _R =25V |
| Diode Capacitance | C _D | | | 10 | pF | V _R =1V, f=1MHz |
| Reverse Recovery Time | t _{rr} | | | 5 | nS | I _F =I _R =10mA I _{rr} =0.1I _R , R _L =100Ω |

Typical Characteristics

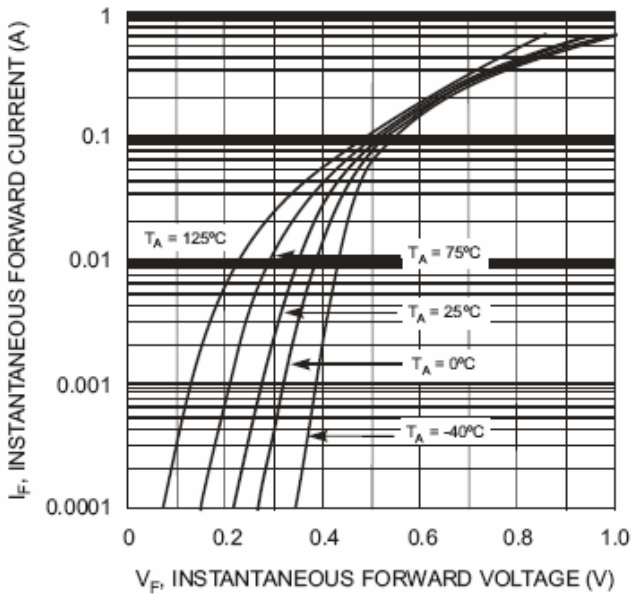


Fig. 1 Forward Characteristics

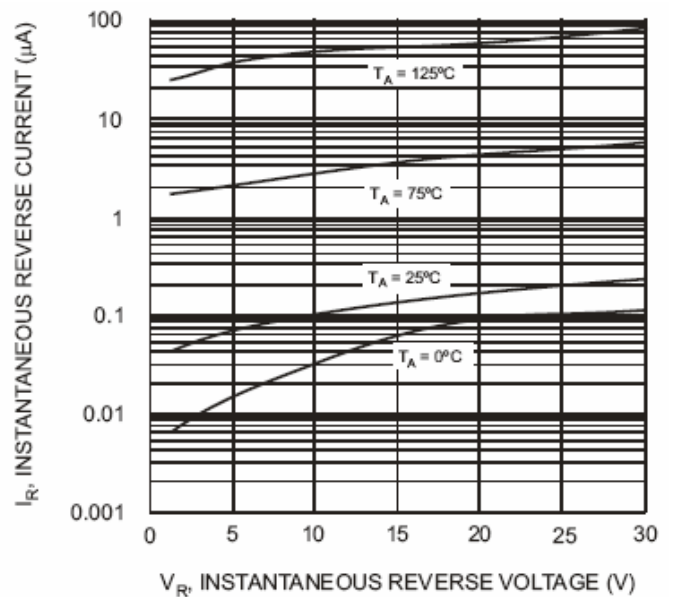


Fig. 2 Typical Reverse Characteristics

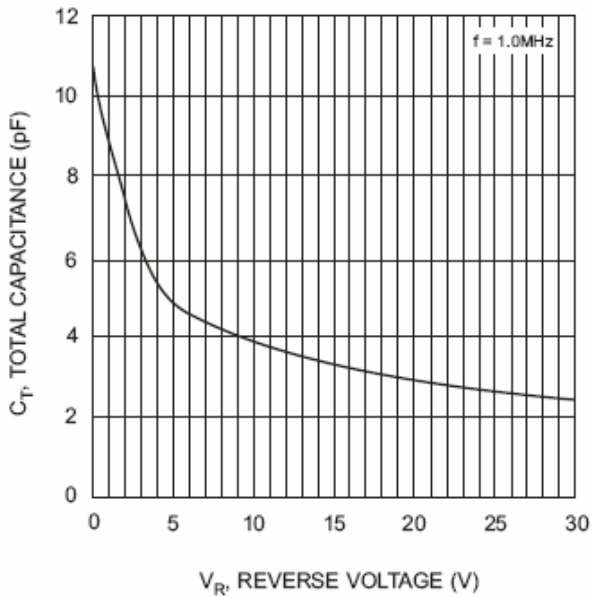


Fig. 3 Typical Capacitance vs. Reverse Voltage

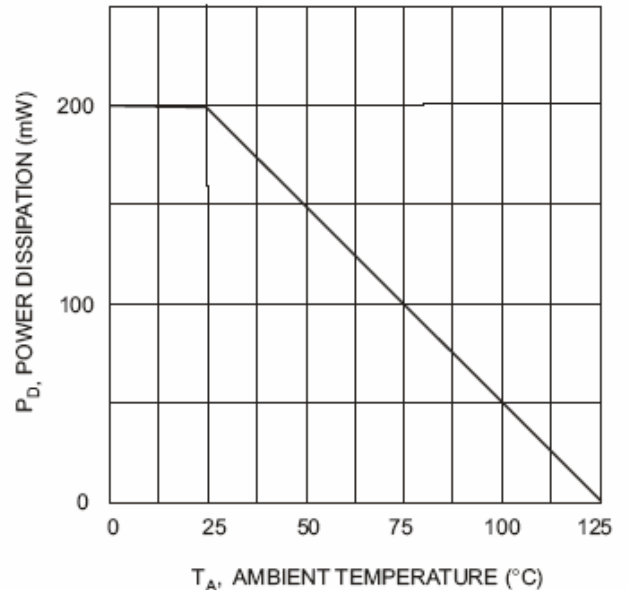


Fig. 4 Power Derating Curve

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