

RoHS Compliant Product

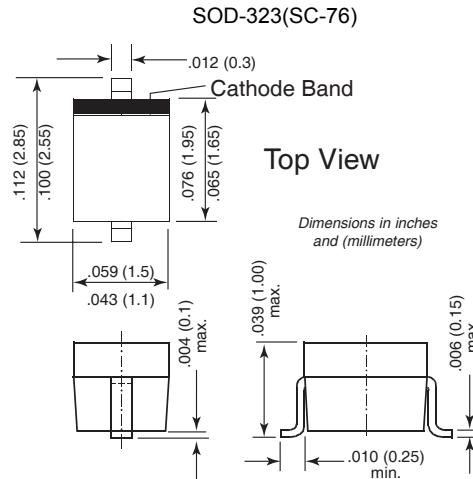
A suffix of "-C" specifies halogen & lead-free

FEATURES

- High Current Capability
- Low Voltage, Low Inductance
- Low Forward Voltage
- For Power Supply
- For Detection and Step-up-conversion

MARKING CODE

W5



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature.
Single diode.

| TYPE NUMBER | LIMITS | UNITS |
|--|------------|-------|
| Non-repetitive Peak Reverse Voltage V_{RM} | 10 | V |
| Forward Current I_F | 3 | A |
| Forward Surge Current I_{FSM} ($t_p = 10ms$) | 5 | A |
| Power Dissipation P_D ($T_C = 25^\circ C$) | 250 | mW |
| Junction Temperature T_J | 150 | °C |
| Storage Temperature Range T_{STG} | -65 ~ +150 | °C |

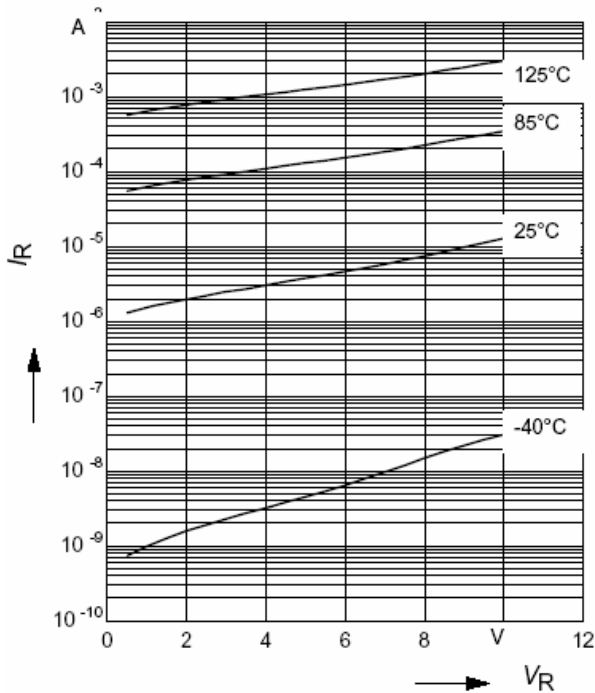
Rating 25°C ambient temperature.

| PARAMETER | MIN. | TYP. | MAX. | CONDITIONS | UNITS |
|-------------------------------------|------|------|--------------------------|--|-------|
| Forward Voltage V_F | | | 300 380 500 600 | $I_F = 10\text{ mA}$ $I_F = 100\text{ mA}$ $I_F = 500\text{ mA}$ $I_F = 1000\text{ mA}$ | mV |
| Reverse Current I_R | | | 15 25 | $V_R = 5\text{ V}$ $V_R = 8\text{ V}$ | μA |
| Capacitance Between Terminals C_T | | | 30 | $V_R = 5\text{ V}$, $f = 1\text{ MHz}$ | pF |

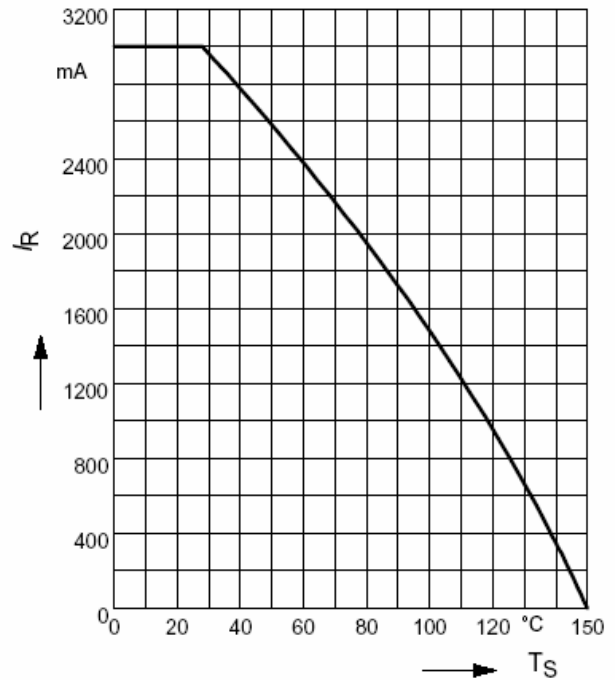
RATING AND CHARACTERISTIC CURVES

Reverse current $I_R = f(V_R)$

$T_A = \text{Parameter}$

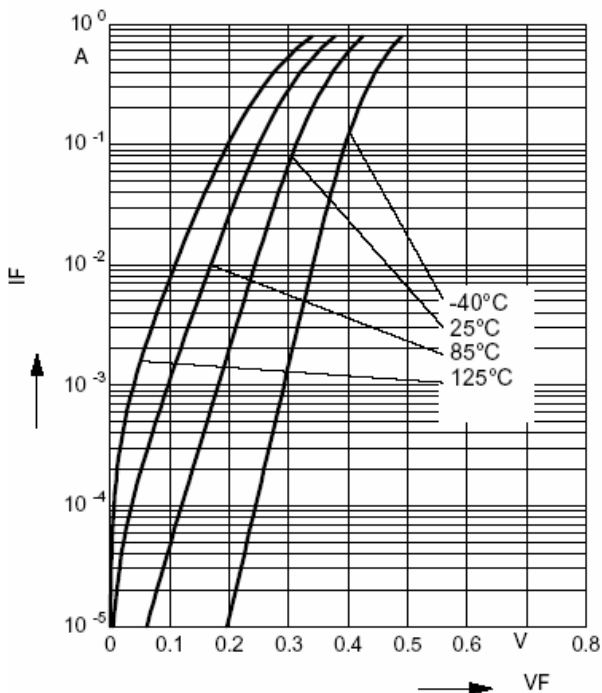


Forward current $I_F = f(T_S)$



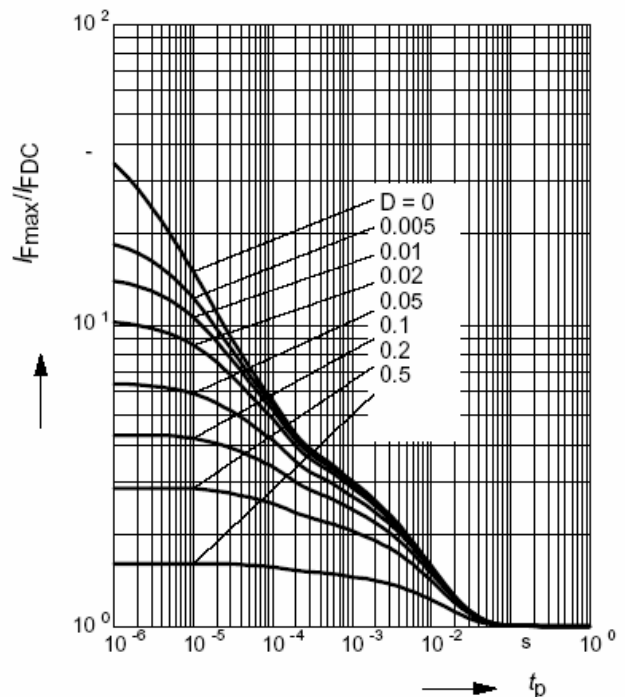
Forward current $I_F = f(V_F)$

$T_A = \text{Parameter}$



Permissible Pulse Load

$I_{Fmax} / I_{FDC} = f(t_p)$



RATING AND CHARACTERISTIC CURVES

Permissible Puls Load $R_{thJS} = f(t_p)$

