

RoHS Compliant Product

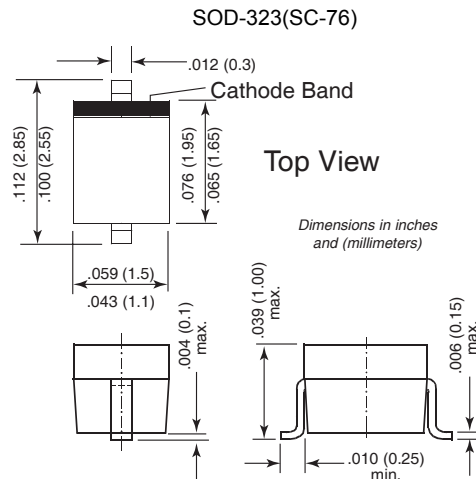
A suffix of "-C" specifies halogen & lead-free

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

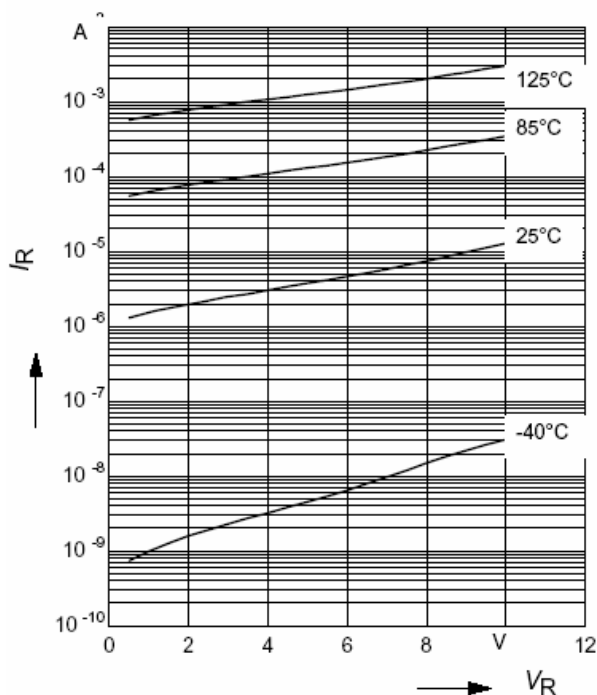
Rating 25°C ambient temperature.

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

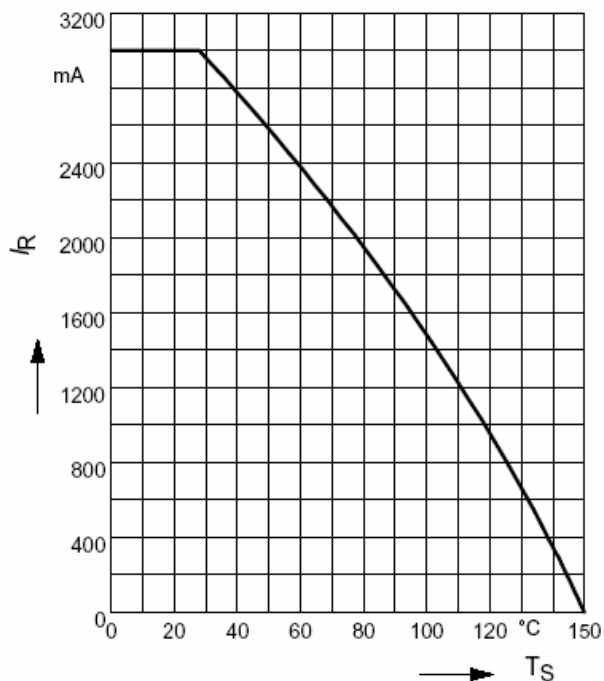
RATING AND CHARACTERISTIC CURVES

Reverse current $I_R = f(V_R)$

$T_A = \text{Parameter}$

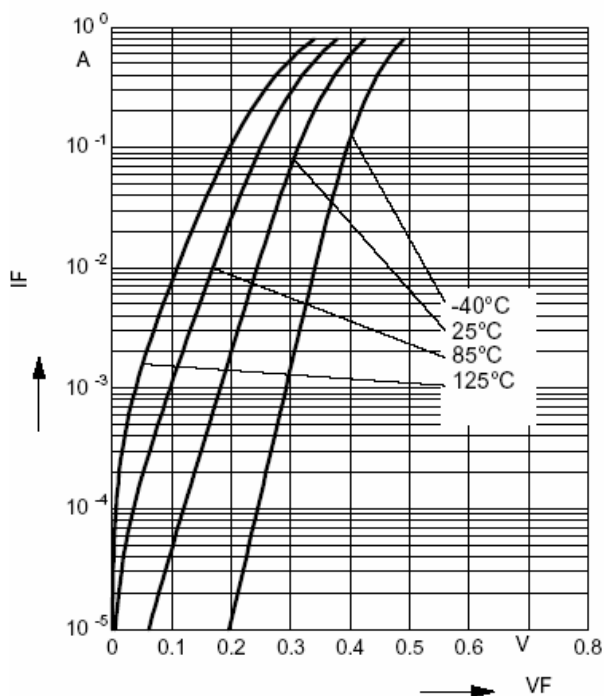


Forward current $I_F = f(T_S)$



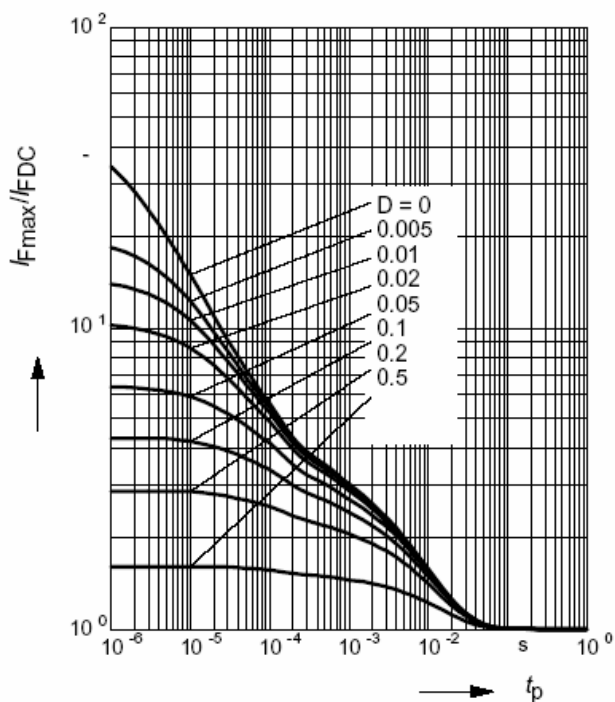
Forward current $I_F = f(V_F)$

$T_A = \text{Parameter}$



Permissible Pulse Load

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



RATING AND CHARACTERISTIC CURVES

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

