

RoHS Compliant Product

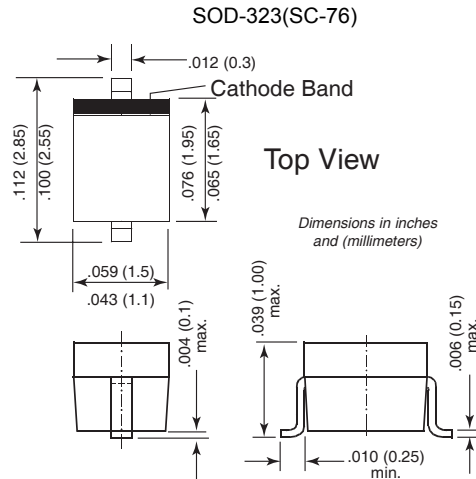
A suffix of "-C" specifies halogen & lead-free

## 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

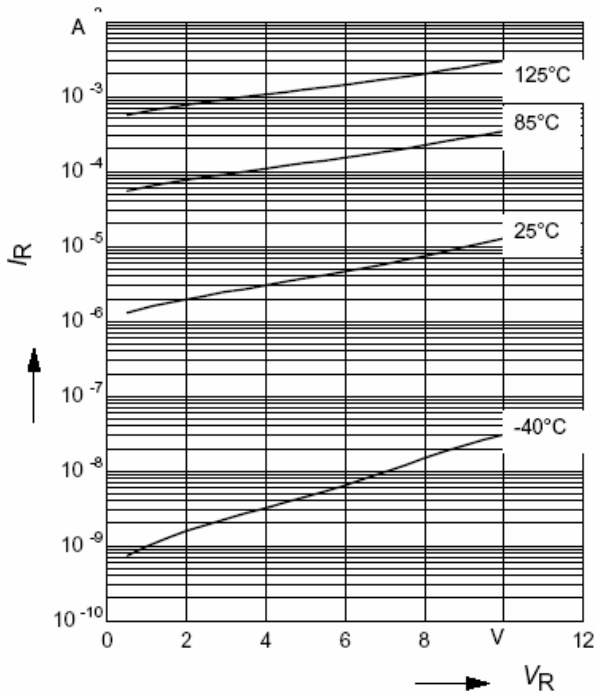
Rating 25°C ambient temperature.

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

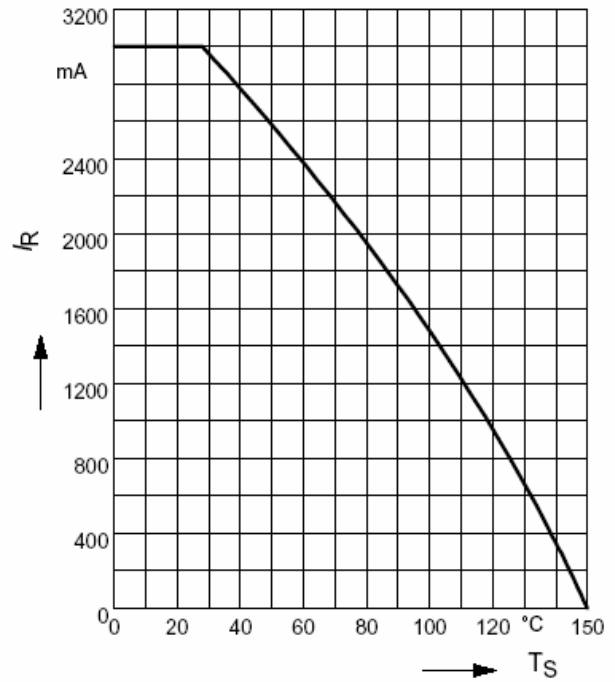
**RATING AND CHARACTERISTIC CURVES**

Reverse current  $I_R = f(V_R)$

$T_A = \text{Parameter}$

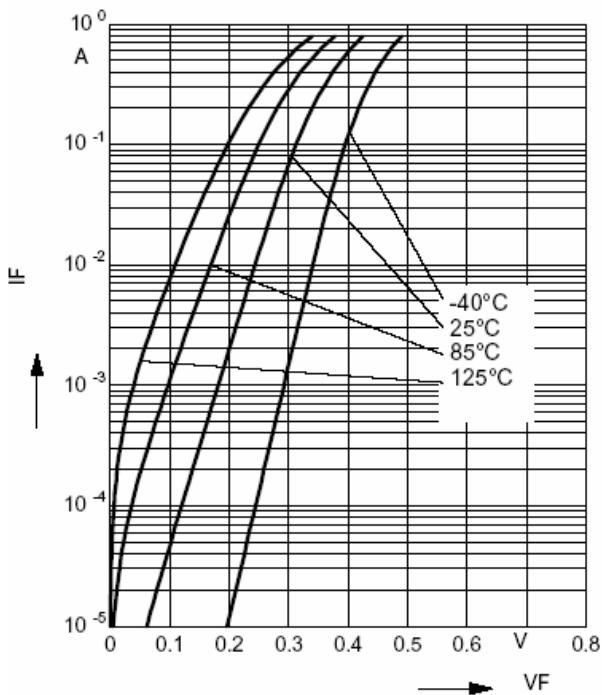


Forward current  $I_F = f(T_S)$



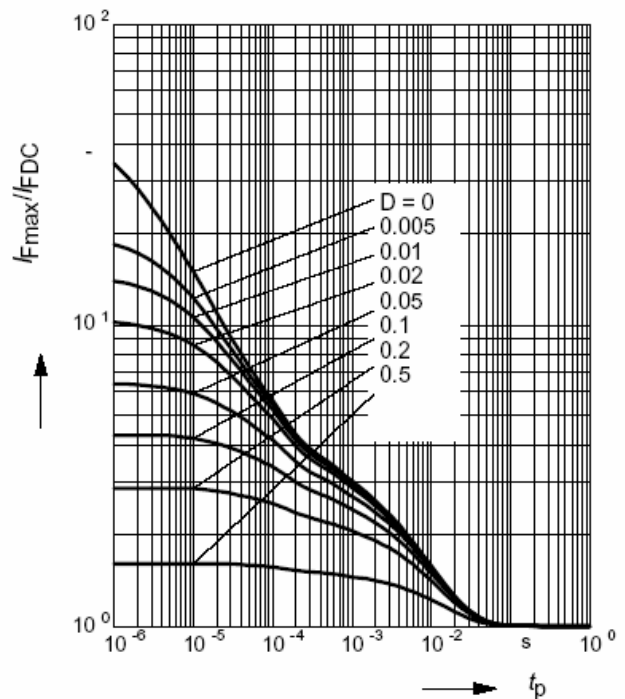
Forward current  $I_F = f(V_F)$

$T_A = \text{Parameter}$



Permissible Pulse Load

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



**RATING AND CHARACTERISTIC CURVES**

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

