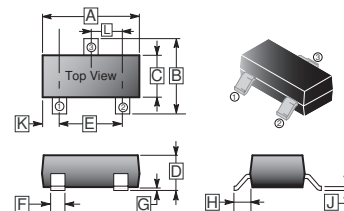


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

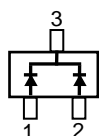
**SOT-23**

**DESCRIPTION**

- Low forward voltage :  $V_{F(3)}=0.9V(\text{typ.})$
- Fast reverse recovery time :  $t_{RR}=1.6\text{ns}(\text{typ.})$



**MARKING: B3**



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.04	G	-	0.18
B	2.10	2.80	H	0.40	0.60
C	1.20	1.60	J	0.08	0.20
D	0.89	1.40	K	0.6	REF.
E	1.78	2.04	L	0.85	1.15
F	0.30	0.50			

**ABSOLUTE MAXIMUM RATINGS** ( $T_A = 25^\circ\text{C}$  unless otherwise specified)

PARAMETER	SYMBOL	VALUE	UNIT
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	85	V
DC Blocking Voltage	$V_R$	80	V
Forward Continuous Current	$I_{FM}$	300	mA
Average Rectified Output Current	$I_O$	100	mA
Power Dissipation	$P_D$	150	mW
Junction & Storage Temperature	$T_J, T_{STG}$	125, -55~125	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$  unless otherwise specified)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Reverse Breakdown Voltage	$V_{(BR)R}$	80	-	-	V	$I_R = 100\mu\text{A}$
Forward Voltage	$V_{F1}$	-	0.60	-	V	$I_F = 1\text{mA}$
	$V_{F2}$	-	0.72	-	V	$I_F = 10\text{mA}$
	$V_{F3}$	-	0.9	1.2	V	$I_F = 100\text{mA}$
Reverse Current	$I_R$	-	-	0.1	$\mu\text{A}$	$V_R = 30\text{V}$
		-	-	0.5	$\mu\text{A}$	$V_R = 80\text{V}$
Capacitance Between Terminals	$C_T$	-	0.9	3	pF	$V_R = 0\text{V}, f = 1\text{MHz}$
Reverse Recovery Time	$t_{RR}$	-	1.6	4	nS	$I_F = I_R = 10\text{mA}, I_{rr} = 0.1 \times I_R$

**RATINGS AND CHARACTERISTIC CURVES**

