

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

## FEATURES

- Small Surface Mounting Type.
- Low  $V_F$ .
- High Reliability.

## APPLICATION

- Low Power Rectification

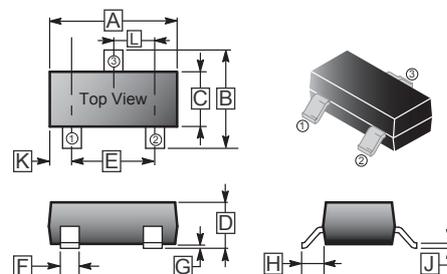
## MARKING

D3C

## PACKAGE INFORMATION

Package	MPQ	LeaderSize
SOT-23	3K	7' inch

## SOT-23



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.80	3.04	G	0.09	0.18
B	2.10	2.55	H	0.45	0.60
C	1.20	1.40	J	0.08	0.177
D	0.89	1.15	K	0.6	REF.
E	1.78	2.04	L	0.89	1.02
F	0.30	0.50			



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

Parameter	Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	V
Peak Forward Surge Current at 8.3 m Sec single half sine-wave	$I_{FSM}$	1	A
Maximum Average Forward Rectified Current	$I_O$	100	mA
Total Power Dissipation	$P_D$	250	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	400	$^\circ\text{C} / \text{W}$
Junction, Storage Temperature	$T_J, T_{STG}$	125, -55 ~ 150	$^\circ\text{C}$

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

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Reverse Voltage	$V_{(BR)}$	40	-	-	V	
Maximum Instantaneous Forward Voltage	$V_F (1)$	-	-	0.55	V	$I_{F(1)} = 100\text{mA}$
	$V_F (2)$	-	-	0.34		$I_{F(2)} = 10\text{mA}$
Maximum Average Reverse Current	$I_R$	-	-	30	$\mu\text{A}$	$V_R = 10\text{V}$
Total Capacitance	$C_{tot}$	-	6	-	pF	$V_R = 10\text{V}, f = 1\text{MHz}$