

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

FEATURES

- High conductance.
- Connected in series.
- Surface mount package ideally suited for automatic insertion.

APPLICATIONS

- High-speed switching in thick and thin-film circuits.

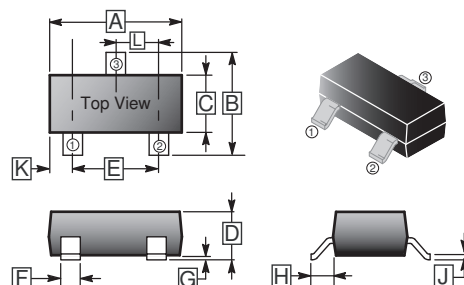
MARKING

JR

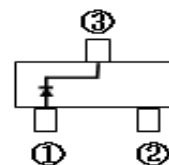
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-23	3K	7 inch

SOT-23



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
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Working Peak Reverse Voltage	V_{RWM}	150	V
Average Rectified Output Current	I_O	200	mA
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	2.5	A
Total Device Dissipation FR-5 Board ¹	P_D	250	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C} / \text{W}$
Junction, Storage Temperature	T_J, T_{STG}	-55~150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	200	-	V	$I_{BR}=100\mu\text{A}$
Leakage Current	I_R	-	0.1	μA	$V_R=150\text{V}$
Forward Voltage	V_F	-	1	V	$I_F=100\text{mA}$
		-	1.25		$I_F=200\text{mA}$
Diode Capacitance	C_D	-	5	pF	$V_R=0, f=1\text{MHz}$
Reverse Recovery Time	t_{rr}	-	50	nS	$I_F=I_R=30\text{mA}, I_{RR}=0.1 \cdot I_R$

RATINGS AND CHARACTERISTIC CURVES

