

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

FEATURES

- Extremely High Switching Speed
- Low Reverse Leakage Current
- High Reliability
- Small Outline Surface Mount SOD-923 Package

APPLICATION

- High Speed Switching

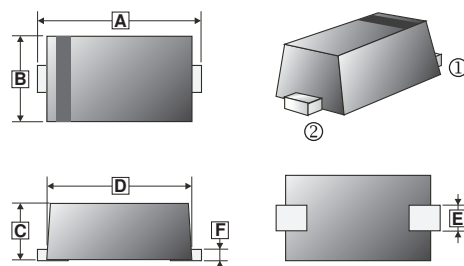
MARKING:

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PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-923	8K	7 inch

SOD-923



REF.	Millimeter	Min.	Max.	REF.	Millimeter	Min.	Max.
A	0.95	1.05		D	0.75	0.85	
B	0.55	0.65		E	0.15	0.25	
C	0.34	0.43		F	0.07	0.17	



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

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	90	V
DC Reverse Voltage	V_R	80	V
Average Rectified Forward Current	$I_{F(AV)}$	100	mA
Peak Forward Surge Current	I_{FSM}	500	mA
	$t=1.0\text{ S}$		
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.	Max.	Unit	Test Conditions
Forward Voltage	V_F	-	1.2	V	$I_F=100\text{mA}$
Reverse Voltage Leakage Current	I_R	-	0.1	μA	$V_R=80\text{V}$
Capacitance Between Terminals	C_T	-	3	pF	$V_R=0.5\text{V}$, $f=1\text{MHz}$
Reverse Recovery Time	T_{RR}	-	4	ns	$V_R=6\text{V}$, $I_F=10\text{mA}$, $R_L=100\Omega$

CHARACTERISTIC CURVES

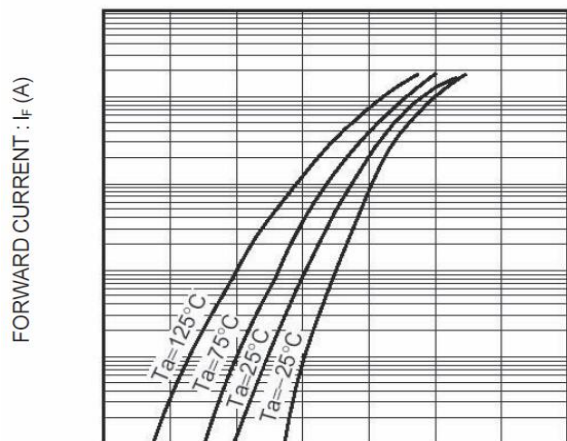


Fig.1 Forward characteristics

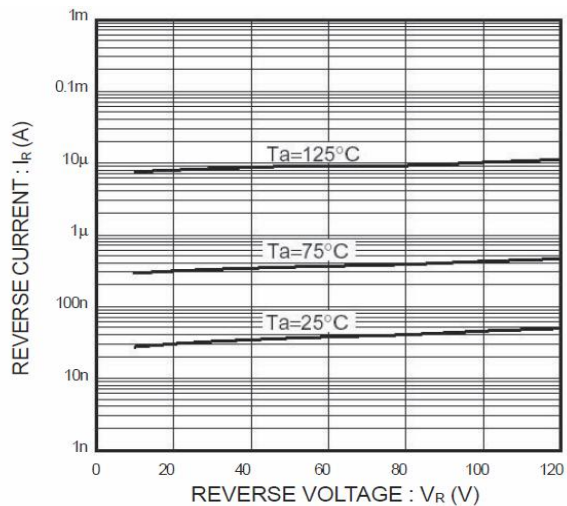


Fig.2 Reverse characteristics

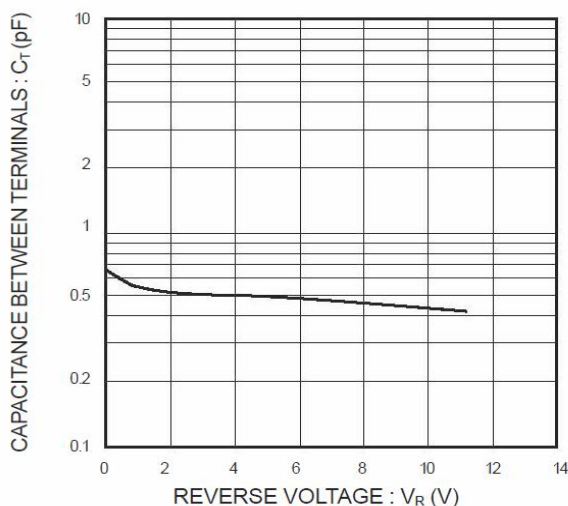


Fig.3 Capacitance between terminals

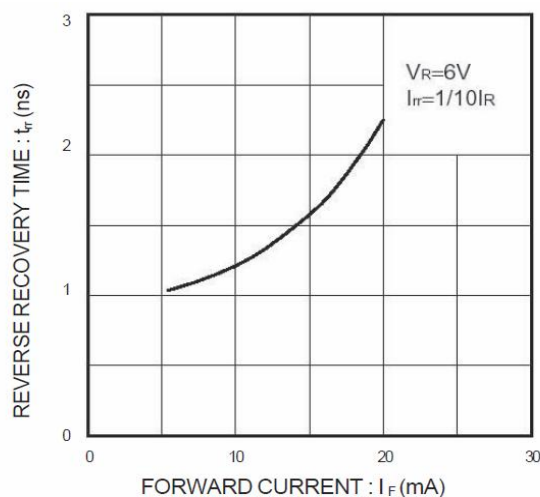


Fig.4 Reverse recovery time characteristics

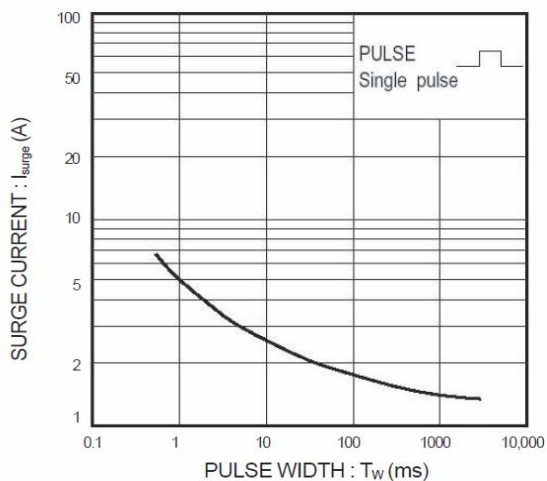


Fig.5 Surge current characteristics

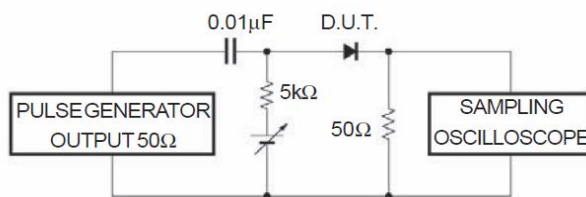


Fig.6 Reverse recovery time (t_{rr}) measurement circuit