Elektronische Bauelemente

SCS400J

0.1A , 90V

Plastic-Encapsulated Switching Diode

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

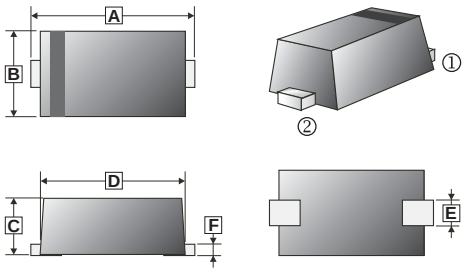
APPLICATION

- High Speed Switching

MARKING:

3

SOD-923



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		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

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-923	8K	7 inch

ABSOLUTE MAXIMUM RATINGS (T_A=25°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	t=1.0 S	I_{FSM}	500	mA
Junction & Storage Temperature		T_J,T_{STG}	125, -55~125	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min.	Max.	Unit	Test Conditions
Forward Voltage	V_F	-	1.2	V	I_F=100mA
Reverse Voltage Leakage Current	I_R	-	0.1	μA	V_R=80V
Capacitance Between Terminals	C_T	-	3	pF	V_R=0.5V, f=1MHz
Reverse Recovery Time	T_{RR}	-	4	ns	V_R=6V, I_F=10mA, R_L=100Ω

CHARACTERISTIC CURVES

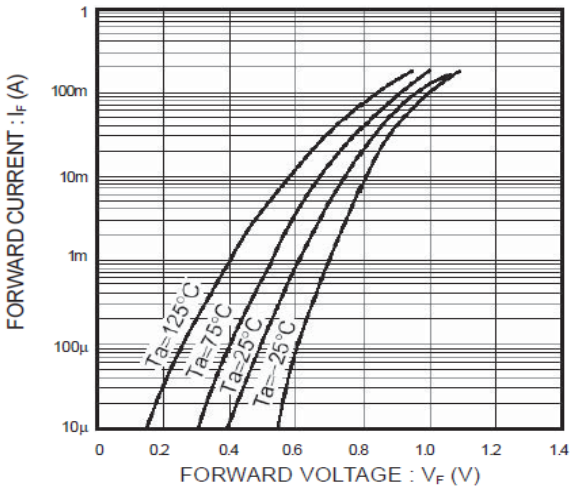


Fig.1 Forward characteristics

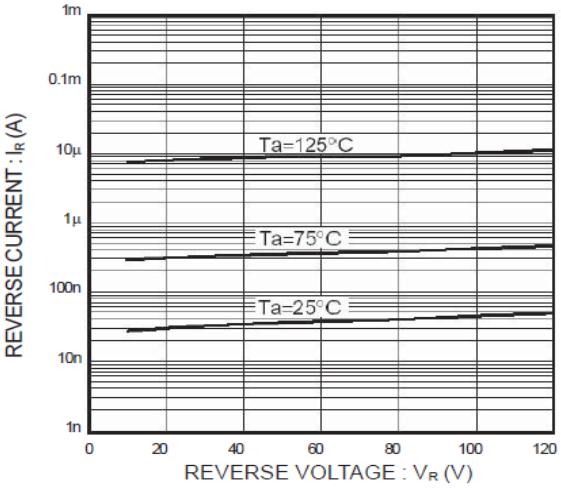


Fig.2 Reverse characteristics

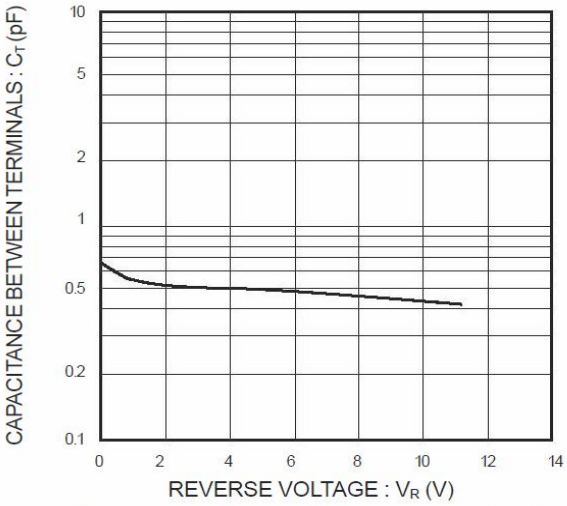


Fig.3 Capacitance between terminals

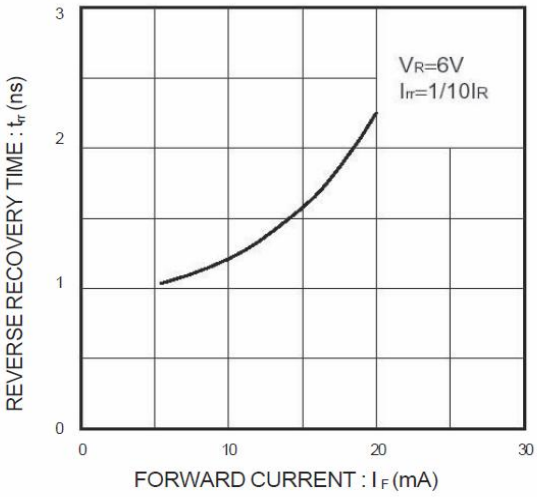


Fig.4 Reverse recovery time characteristics

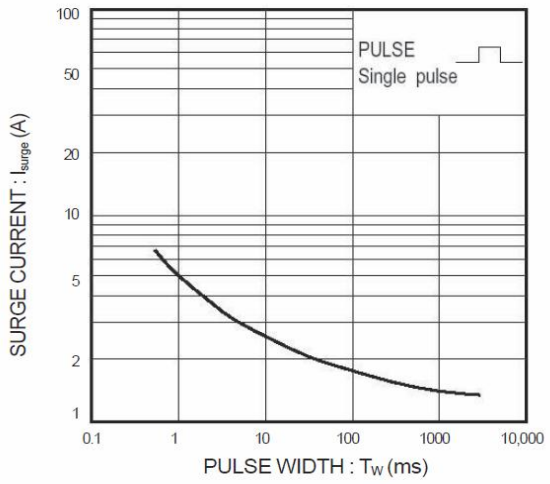


Fig.5 Surge current characteristics

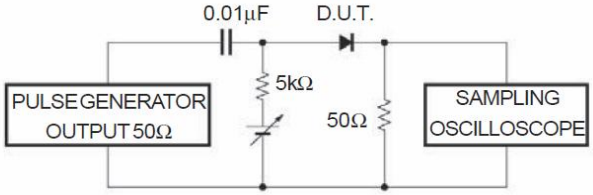


Fig.6 Reverse recovery time (t_{rr}) measurement circuit