Elektronische Bauelemente

SCS202NK

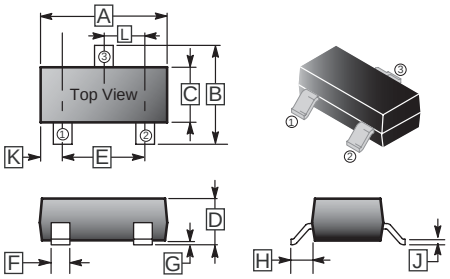
80 V, 300 mA
Plastic-Encapsulated
Small Signal Switching Diode

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

FEATURES

- High reliability
- Suitable for high packing density layout
- Fast reverse recovery time : t_{rr} = 1.5ns (typ.)

SOT-23



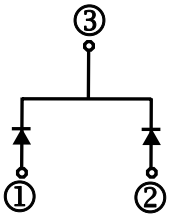
REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.80	3.04	G	0.09	0.18
B	2.10	2.55	H	0.45	0.60
C	1.20	1.40	J	0.08	0.177
D	0.89	1.15	K	0.6 REF.	
E	1.80	2.00	L	0.89	1.02
F	0.30	0.50			

PACKAGING INFORMATION

Weight: 0.0078 g (Approx.)

MARKING CODE

N



ABSOLUTE MAXIMUM RATINGS (at Ta = 25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Peak Reverse Voltage	V_{RM}	80	V
DC Reverse Voltage	V_R	80	V
Maximum (Peak) Forward Current	I_{FM}	300	mA
Average Forward Current	I_O	100	mA
Power Dissipation	P_D	250	mW
Junction, Storage Temperature	T_J, T_{STG}	+150, -55 ~ +150	°C

ELECTRICAL CHARACTERISTICS (at Ta = 25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	$V_{(BR)}$	80	-	-	V	I_R = 100 μA
Forward Voltage	V_F	-	-	1.2	V	I_F = 100 mA
Reverse Voltage Leakage Current	I_R	-	-	0.1	μA	V_R = 70V
Diode Capacitance	C_D	-	-	3.5	pF	V_R = 6 V, f = 1 MHz
Reverse Recovery Time	t_{rr}	-	-	4.0	ns	V_R = 6 V, I_F = 5 mA

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CHARACTERISTIC CURVES

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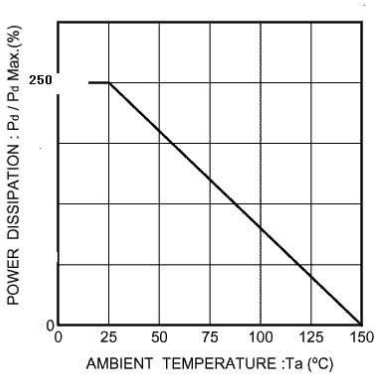
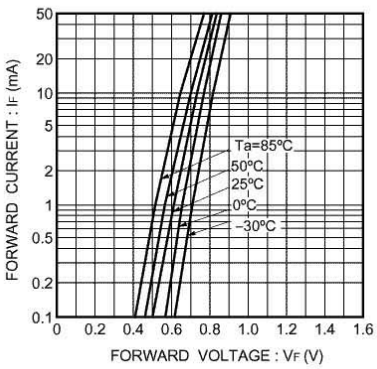
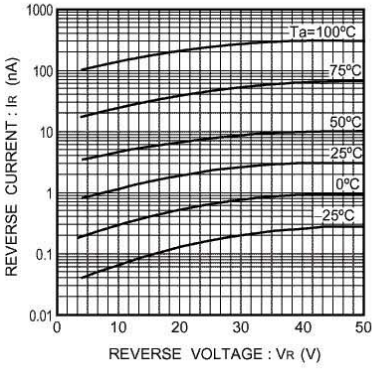


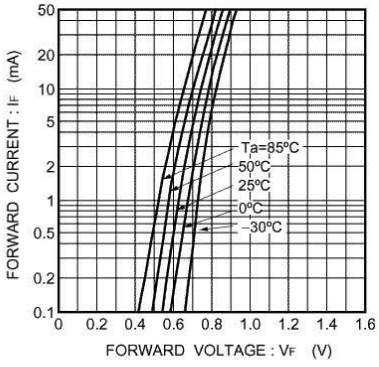
Power attenuation curve



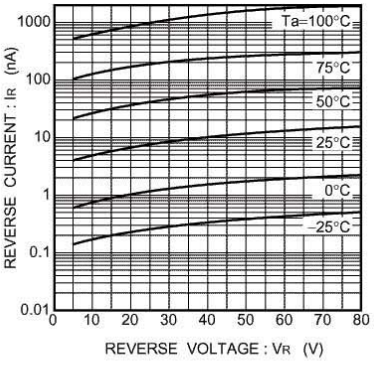
Forward characteristics
(P Type)



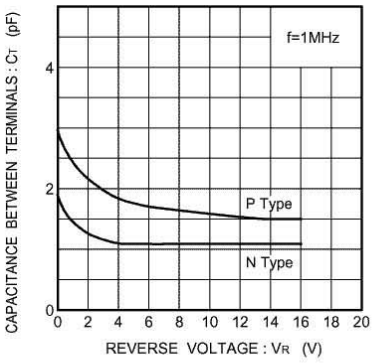
Reverse characteristics
(P Type)



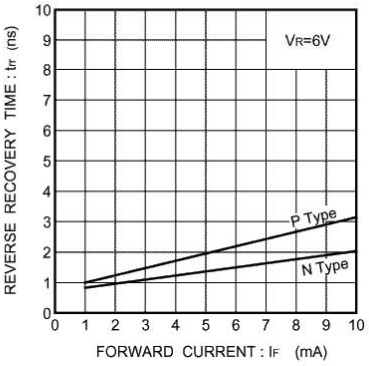
Forward characteristics
(N Type)



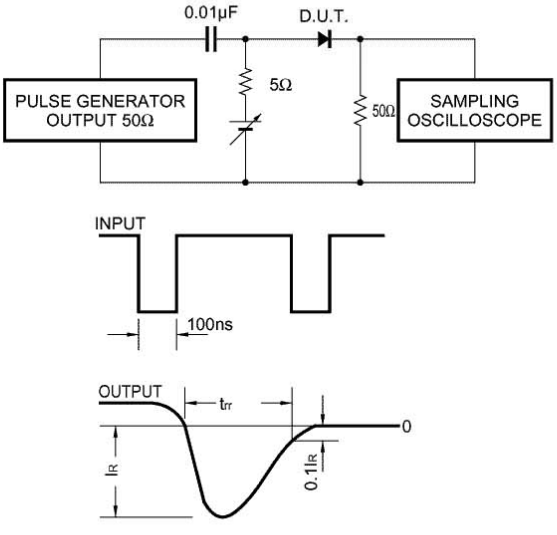
Reverse characteristics
(N Type)



Capacitance between
terminals characteristics



Reverse recovery time



Reverse recovery time (t_{rr}) measurement circuit