Elektronische Bauelemente

SD107WS

100 mA, 30 V

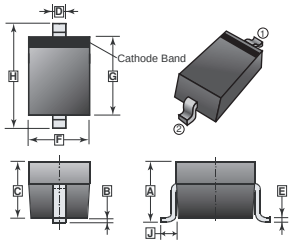
Plastic-Encapsulate Schottky Diodes

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

FEATURES

- Low Forward Voltage Drop
- Guard Ring Die Construction for Transient Protection
- Ideal for Low Logic Level Applications
- Low Capacitance
- Also Available in Lead Free Version

SOD-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.05 REF.		E	0.080	0.180
B	0.20 REF.		F	1.15	1.45
C	0.80	1.00	G	1.60	1.80
D	0.25	0.40	H	2.30	2.70

MARKING : SG

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS at T_A = 25℃

PARAMETER	SYMBOL	RATINGS	UNIT
Non-Repetitive Peak reverse voltage	V_{RM}	30	V
Forward Current	I_{FM}	100	mA
Forward Surge Current (t_P =10ms)	I_{FSM}	750	mA
Power Dissipation (T_C=25℃)	P_{TOT}	250	mW
Thermal Resistance Junction to Ambient Air	$T_{\theta JA}$	500	℃/W
Junction, Storage Temperature	T_J, T_{STG}	150, -65~150	℃

ELECTRICAL RATING at T_A = 25℃

PARAMETERS	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Reverse Breakdown Voltage	V_R	30			V	I_R = 100μA
Forward Voltage	V_F		300		mV	I_F =2mA
			360			I_F =15mA
			470	550		I_F =50mA
			580	800		I_F =100mA
Reverse Current	I_R			1	μA	V_R = 25V
Capacitance between terminals	C_T		7		pF	V_R = 10V, f = 1MHZ

RATINGS AND CHARACTERISTIC CURVES

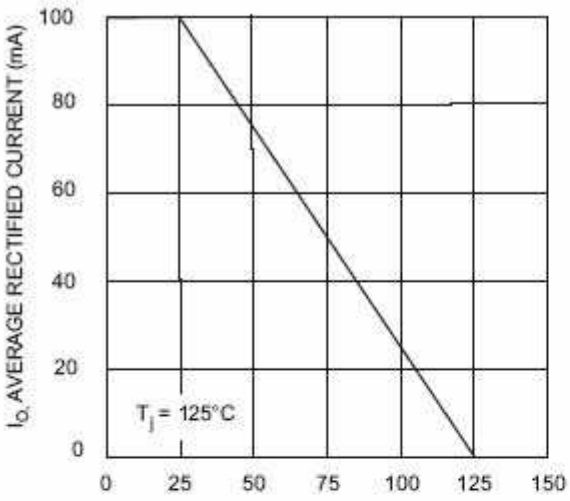


Fig. 1 Forward Current Derating Curve

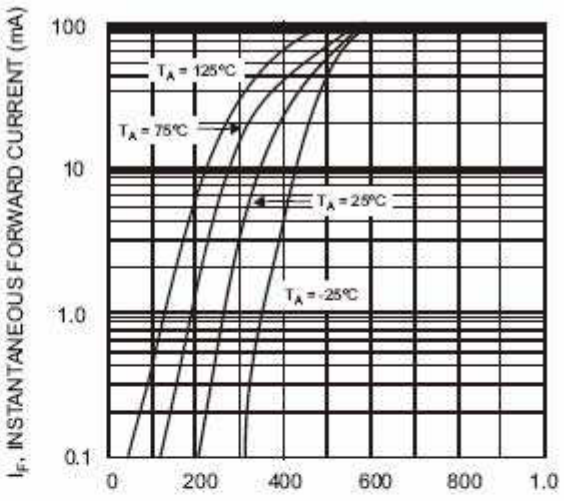


Fig. 2 Typical Forward Characteristics

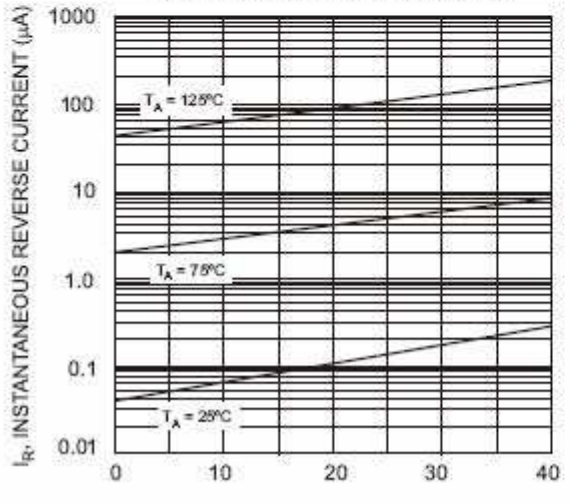


Fig. 3 Typical Reverse Characteristics

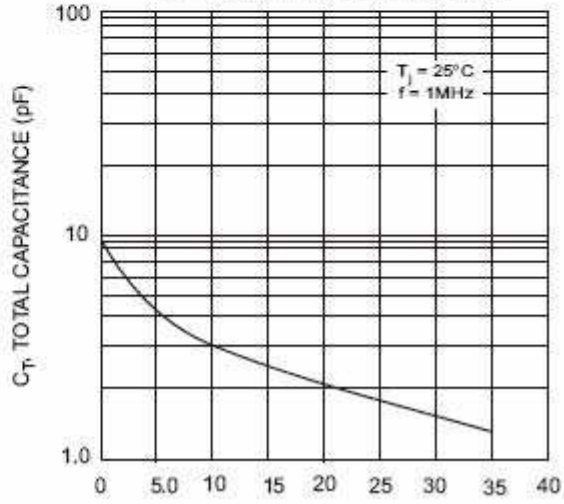


Fig. 4 Total Capacitance vs. Reverse Voltage