

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

FEATUERS

- SOD-123 surface mount package
- High breakdown voltage
- Fast speed switching time

APPLICATIONS

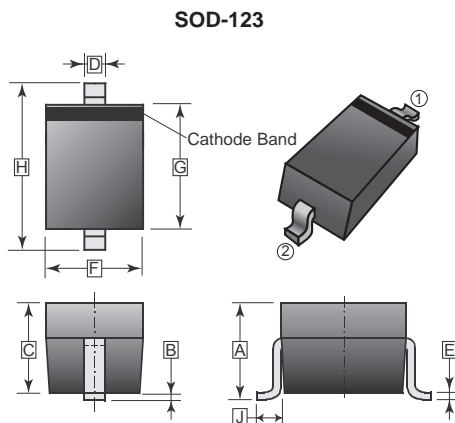
- Surface mount fast switching diode

MARKING

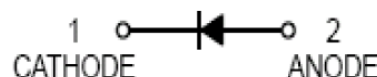
Product	Marking Code
MMSD914	5D

PACKAGE INFORMATION

Package	MPQ	LeaderSize
SOD-123	3K	7' inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.05	1.25	F	1.50	1.70
B	0.10 REF.		G	2.60	2.80
C	1.05	1.15	H	3.55	3.85
D	0.45	0.65	J	0.50 REF.	
E	0.08	0.15			



MAXIMUM RATINGS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Continuous reverse Voltage	V _R	100	V
Forward continuous Current	I _F	200	mA
Peak Forward Surge Current	I _{FSM}	@t=1s	1.0
		@t=1ms	2.0
Power Dissipation	P _D	425	mW
Thermal Resistance Junction to Ambient	R _{θJA}	290	°C / W
Operating and Storage Temperature Range	T _J , T _{STG}	-55~150	°C

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

Parameters	Symbol	Min.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V _{(BR)R}	100	-	V	I _R = 100µA
Forward Voltage	V _F	-	1.0	V	I _F = 10mA
Reverse Current	I _R	-	25	µA	V _R = 20V
		-	5.0	nA	V _R = 75V
Diode Capacitance	C _D	-	4.0	pF	V _R = 0V, f=1.0MHz
Reverse Recovery Time	t _{rr}	-	4.0	ns	I _F = 10mA, I _R = 10mA

RATINGS AND CHARACTERISTIC CURVES ($T_A=25^\circ\text{C}$ unless otherwise specified)

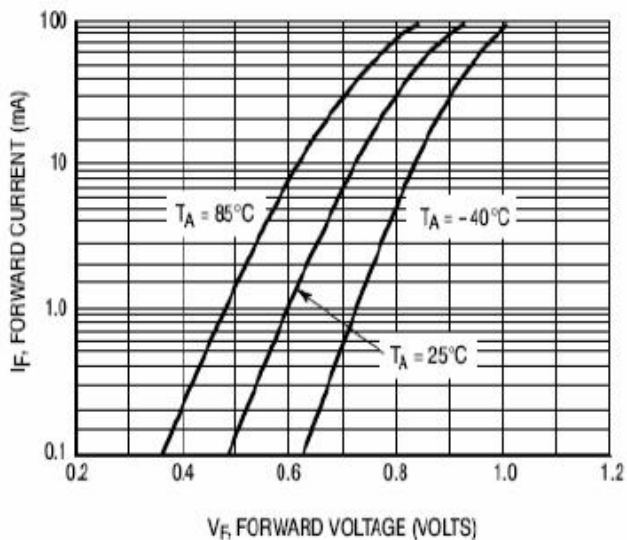


Figure 1. Forward Voltage

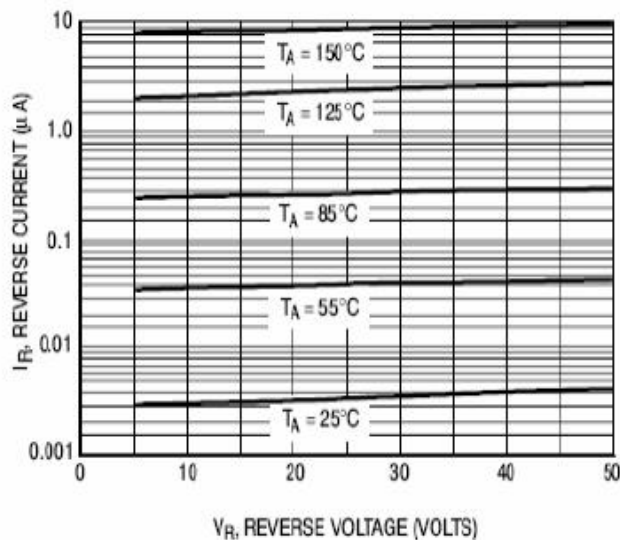


Figure 2. Leakage Current

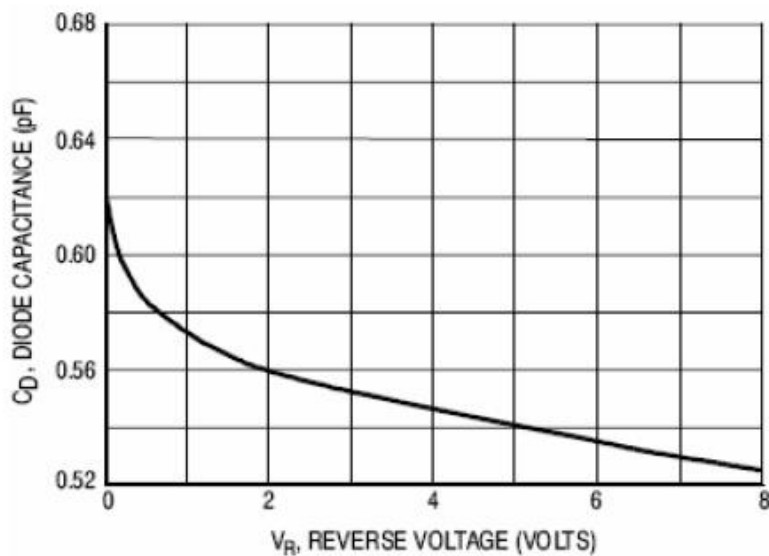


Figure 3. Capacitance