

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

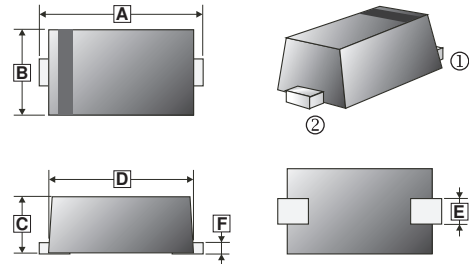
FEATURES

- High speed switching.
- High reliability.
- High reliability with high surge current handling capability

MECHANICAL DATA

- Extremely small surface mounting type. (EMD2)
- High speed.
- Silicon epitaxial planer

SOD-523



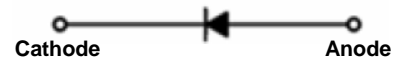
MARKING CODE

A

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	D	1.10	1.30
B	0.70	0.90	E	0.25	0.35
C	0.50	0.77	F	0.07	0.20

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	3K	7 inch



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

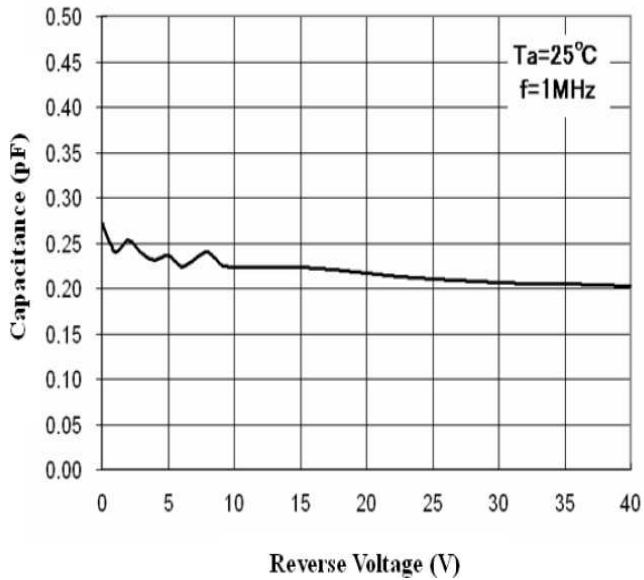
Parameters	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	V _{RSM}	100	V
Forward Current	I _{FM}	200	mA
Peak Forward Surge Current (Pulse Width=1s)	I _{FSM}	500	mA
Power Dissipation	P _D	200	mW
Operating Junction and Storage Temperature	T _J , T _{STG}	150, -55~150	°C

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

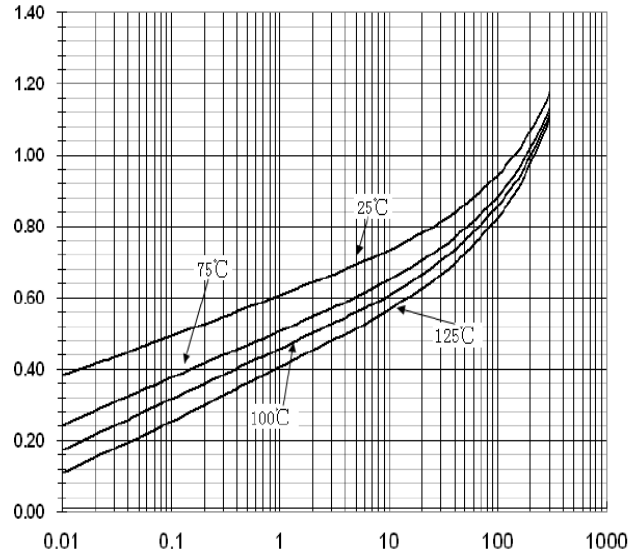
Parameters	Symbol	Min.	Max.	Unit	Test Conditions
Breakdown Voltage	B _V	100		V	I _R =100μA
Forward Voltage	V _F	-	1.2	V	I _F =100mA
Maximum DC Reverse Current at rated DC blocking Voltage	I _R	-	100	nA	V _R =80V
Capacitance	C	-	4	pF	V _R =0.5V, f=1MHz
Maximum Reverse Recovery Time	T _{RR}	-	4	nS	I _F =10mA, V _R =6V, R _L =100Ω

ELECTRICAL CHARACTERISTICS

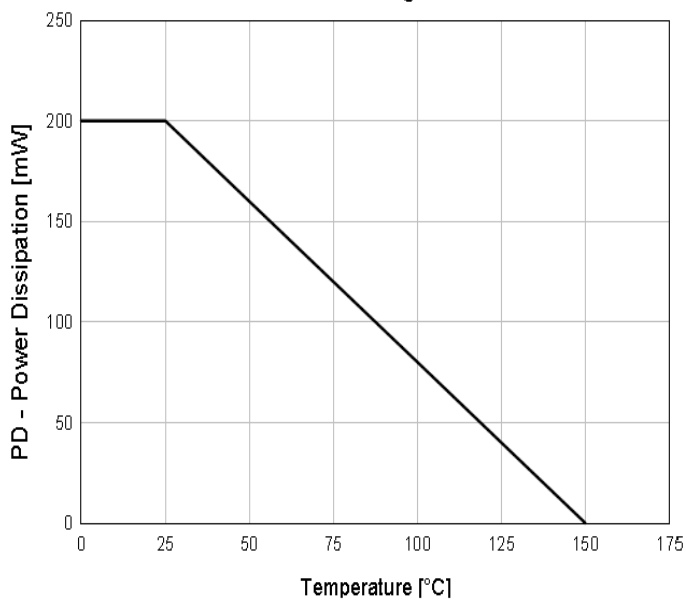
Total Capacitance



Forward Voltage vs Ambient Temperature



Power Derating Curve



Reverse Current vs Reverse Voltage

