

SCHOTTKY BARRIER DIODE

Dimensions SOD-523

●Applications

Low current rectification and high speed switching

●Features

Extremely small surface mounting type. (SOD523)

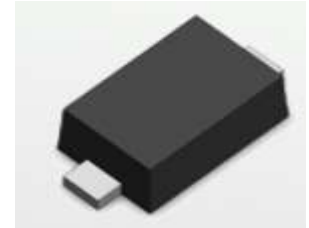
$I_O=200\text{mA}$ guaranteed despite the size.

Low V_F .

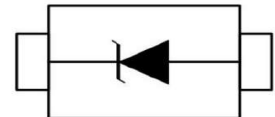
●Construction

Silicon epitaxial planar

- We declare that the material of product compliance with RoHS requirements.
- S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.



Pin Configuration



Ordering Information

Device	Marking	Shipping
SDM03U40Q	S	3000/Tape&Reel

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)

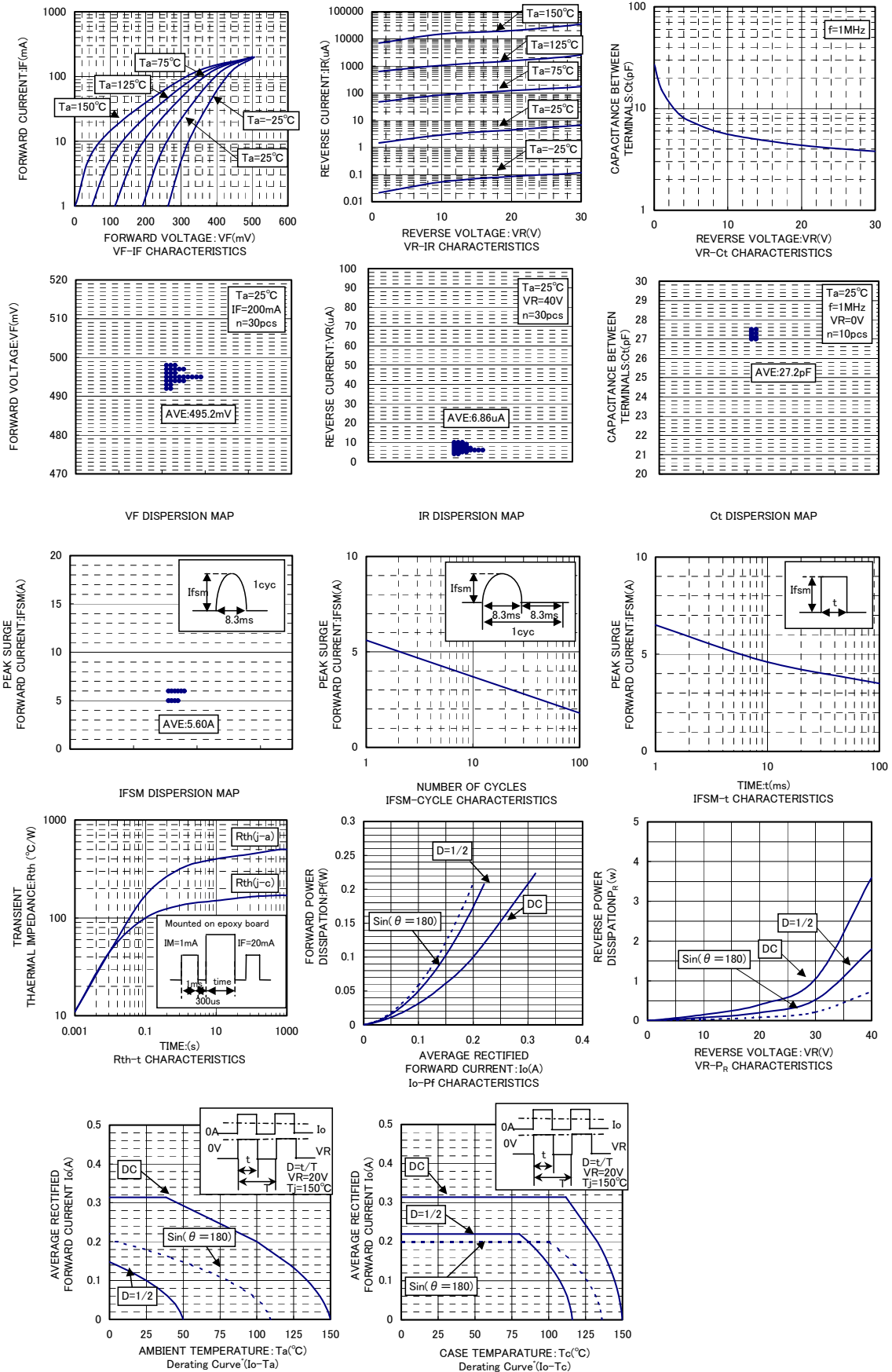
Parameter	Symbol	Limits	Unit
DC reverse voltage	V_R	40	V
Mean rectifying current	I_O	200	mA
Peak forward surge current*	I_{FSM}	4	A
Junction temperature	T_J	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55~+125	$^\circ\text{C}$

*60Hz for 1

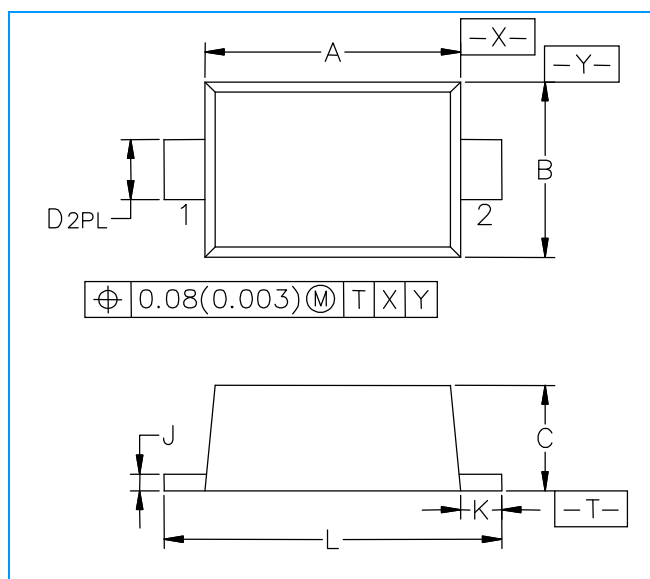
ELECTRICAL CHARACTERISTICS($T_A=25^\circ\text{C}$)

Parameter	Symbol	Min.	Max.	Unit	Conditions
Forward voltage	V_F	0.16	0.30	V	$I_F=10\text{mA}$
Forward voltage	V_F	0.31	0.45	V	$I_F=100\text{mA}$
Forward voltage	V_F	0.37	0.52	V	$I_F=200\text{mA}$
Reverse current	I_R	–	20	μA	$V_R=10\text{V}$
Reverse current	I_R	–	90	μA	$V_R=40\text{V}$
ESD break down voltage	ESD	8	–	K V	$C=100\text{pF}$ $R=1.5\text{K } \Omega$ forward and reverse 1 time

●Electrical characteristic curves

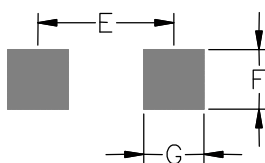


SOD-523 Package Outline & Dimensions



Symbol	Millimeters			Inches		
	Min.	Nom.	Max.	Min.	Nom.	Max.
A	1.10	1.20	1.30	0.043	0.047	0.051
B	0.70	0.80	0.90	0.028	0.032	0.035
C	0.50	0.60	0.70	0.020	0.024	0.028
D	0.25	0.30	0.35	0.010	0.012	0.014
J	0.07	0.14	0.20	0.0028	0.0055	0.0079
K	0.15	0.20	0.25	0.006	0.008	0.010
S	1.50	1.60	1.70	0.059	0.063	0.067

Soldering Footprint



Symbol	Millimeters	Inches
E	1.40	0.0547
F	0.40	0.0157
G	0.40	0.0157