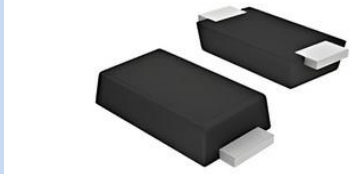
Schottky Barrier Rectifier
0.2A 40V SOD-523 AEC-Q101

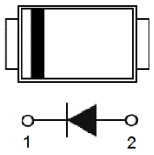
RB521S-40-A

MERITEK

FEATURES

- High Speed Switching
- Low Forward Voltage Drop
- Silicon Epitaxial Planar Chip, Metal Silicon Junction
- Application: Low-Voltage, High-Frequency Inverters, Free Wheeling, and Polarity Protection
- AEC-Q101 Qualified





RoHS

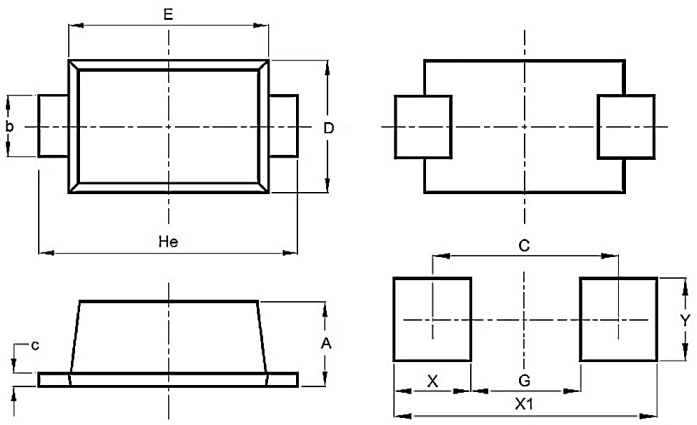
ELECTRICAL CHARACTERISTICS

Parameter		Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	40	V
Maximum Continuous Reverse Voltage		V_R	40	V
Maximum Average Forward Rectified Current		$I_{F(AV)}$	0.2	A
Peak Forward Surge Current	60Hz for 1 Cycle	I_{FSM}	1.0	A
Maximum Forward Voltage	I_F= 0.2A	V_F	0.54	V
Maximum Reverse Current	V_R=10V	I_R	20	μA
Diode Capacitance	V_R=10V, f=1MHz	C_J	6.0	pF
Operating Junction and Storage Temperature Range		T_J, T_{STG}	-55 to +125	°C

Note: Ratings at 25°C ambient temperature unless otherwise specified.

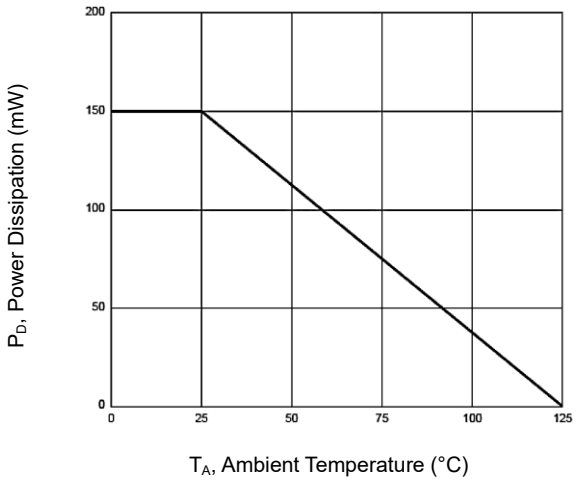
DIMENSIONS

Item	Min (mm)	Max (mm)
A	0.50	0.70
b	0.25	0.40
c	0.05	0.20
D	0.70	0.90
E	1.10	1.30
He	1.50	1.70
C	1.70	
G	1.10	
X	0.60	
X1	2.30	
Y	0.80	

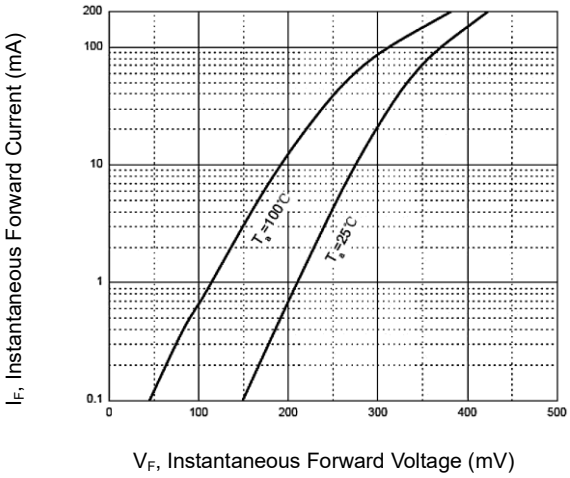
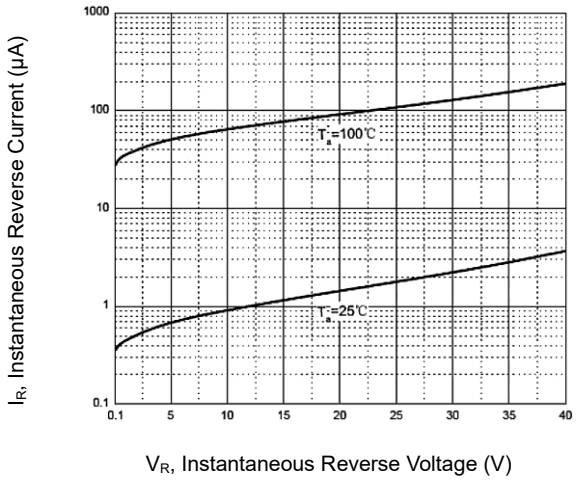


CHARACTERISTIC CURVES

Power Derating Curve



Typical Forward Characteristics



Typical Reverse Characteristics