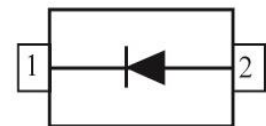
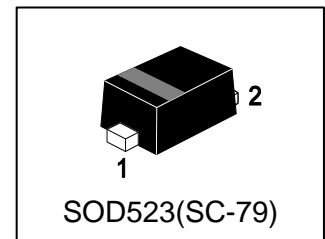


## Schottky Barrier Diode

### 1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.
- Extremely fast switching speed
- Extremely low forward voltage 0.5V (max) @ IF = 200 mA
- Low reverse current



### 2. APPLICATIONS

- Low current rectification and high speed switching

### 3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
RB521S-30	5M	3000/Tape&Reel

### 4. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
DC Reverse Voltage	VR	30	V
Mean Rectifying Current	IO	200	mA
Peak Forward Surge Current	IFMS	1	A

### 5. THERMAL CHARACTERISTICS

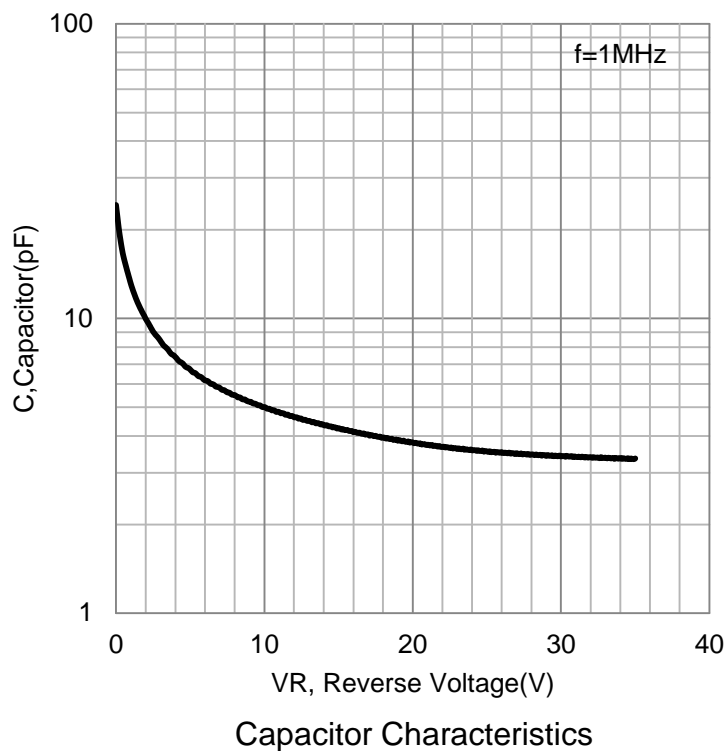
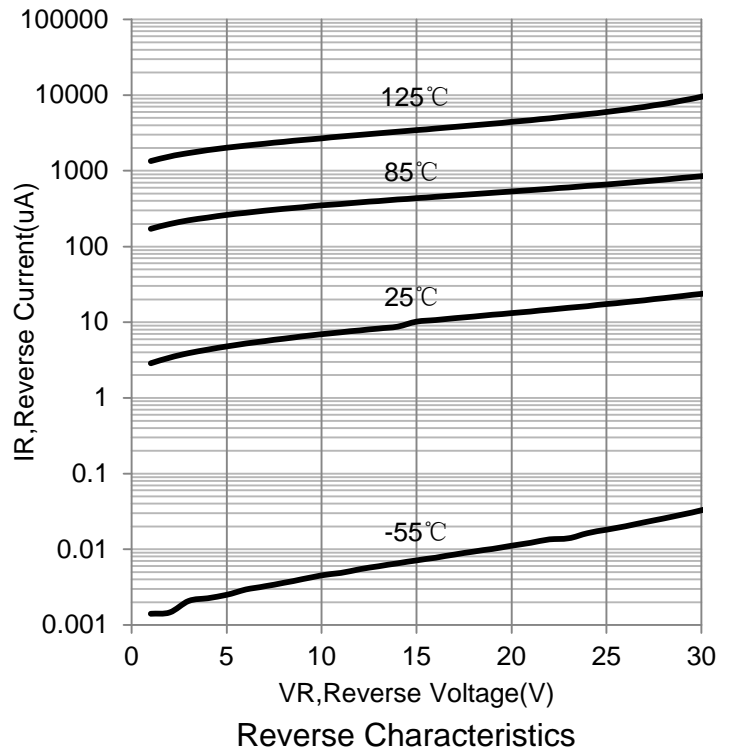
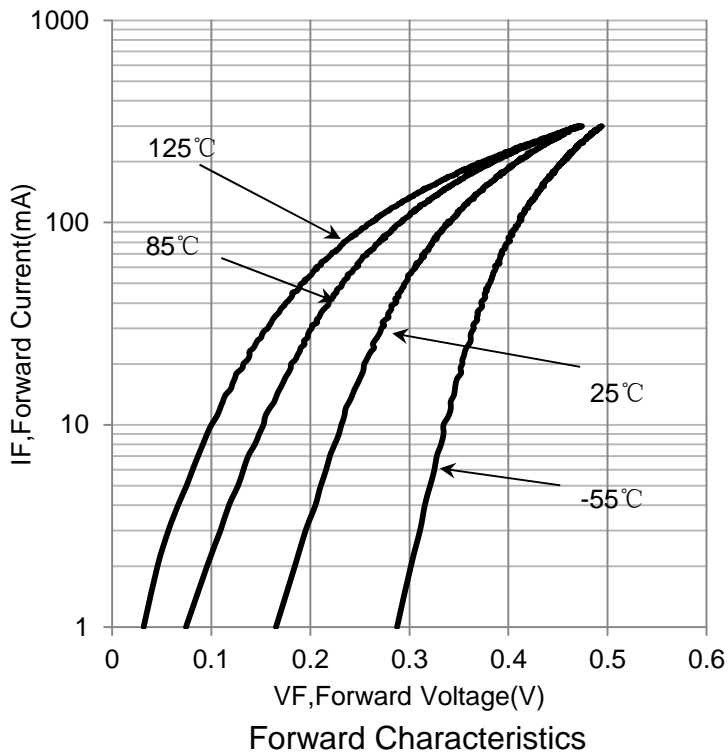
Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C	PD	200 1.57	mW mW/°C
Thermal Resistance, Junction-to-Ambient(Note 1)	ROJA	635	°C/W
Junction and Storage temperature	TJ, Tstg	-40 ~ +125	°C

1. FR-5 = 1.0×0.75×0.062 in.

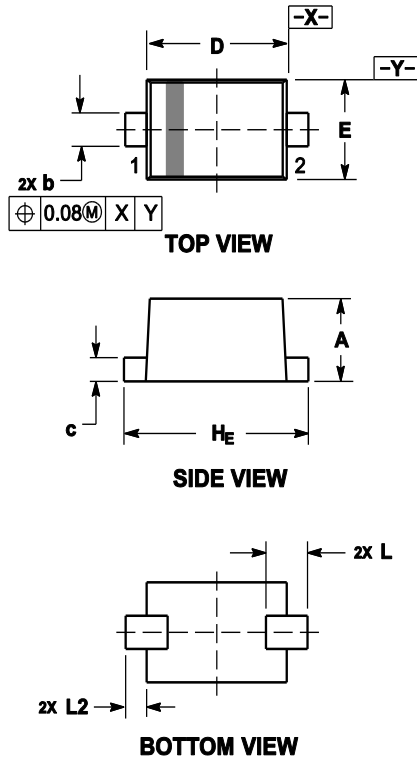
### 6. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Forward voltage(IF=200mA)	VF	-	-	0.5	V
Reverse Current(VR=10V)	IR	-	-	30	μA

### 7. ELECTRICAL CHARACTERISTICS CURVES



## 8. OUTLINE AND DIMENSIONS



### Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.50	0.60	0.70	0.020	0.024	0.028
b	0.25	0.30	0.35	0.010	0.012	0.014
c	0.07	0.14	0.20	0.003	0.006	0.008
D	1.10	1.20	1.30	0.043	0.047	0.051
E	0.70	0.80	0.90	0.028	0.031	0.035
$H_E$	1.50	1.60	1.70	0.059	0.063	0.067
L	0.30 REF			0.012 REF		
$L_2$	0.15	0.20	0.25	0.006	0.008	0.010

## 9. SOLDERING FOOTPRINT

