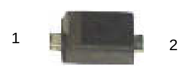
Zowie Technology Corporation

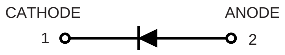
Schottky Barrier Diode

- Halogen-free type
- Lead free product
- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

RB520G-30GH



SOD-723



MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30	V
Maximum Average Forward Rectified Current	Io	100	mA
Peak Forward Surge Current at 8.3 mSec single half sine-wave	I_{FSM}	500	mA
Maximum Junction Temperature Range	T_J	+125	℃
Storage Temperature Range	T_{STG}	-40 to +125	℃

DEVICE MARKING

RB520G-30GH = E

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

Maximum Instantaneous Forward Voltage at I_F=10mA	V_F	0.45	V
Maximum Average Reverse Current at V_R=10V	I_R	0.5	μA

FIG. 1 - FORWARD CHARACTERISTICS

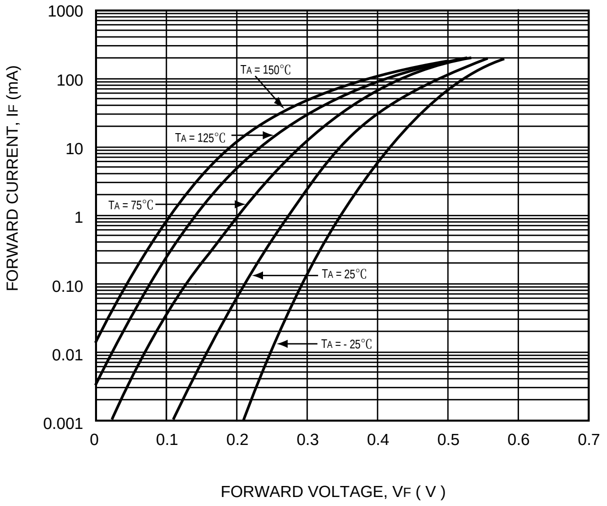


FIG. 2 - REVERSE CHARACTERISTICS

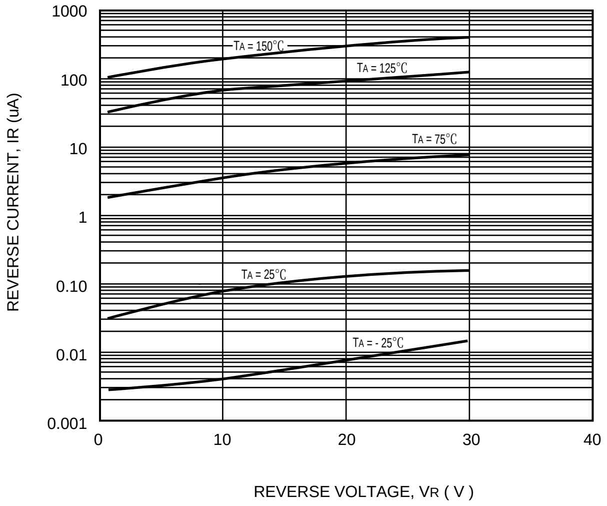
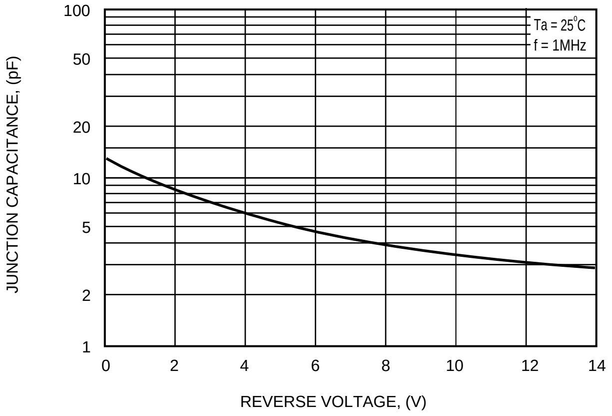
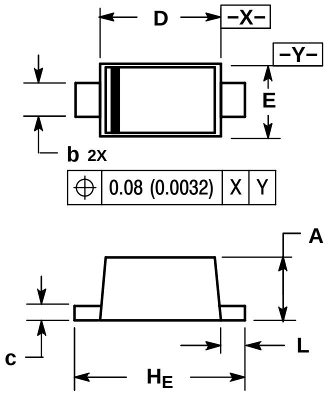


FIG. 3 - TYPICAL JUNCTION CAPACITANCE



CASE DRAWINGS

SOD−723



NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.

	MILLIMETERS			**INCHES**		
DIM	**MIN**	**NOM**	**MAX**	**MIN**	**NOM**	**MAX**
A	0.49	0.52	0.55	0.019	0.020	0.022
b	0.25	0.28	0.32	0.0098	0.011	0.013
c	0.08	0.12	0.15	0.0032	0.0047	0.0059
D	0.95	1.00	1.05	0.037	0.039	0.041
E	0.55	0.60	0.65	0.022	0.024	0.026
H_E	1.35	1.40	1.45	0.053	0.055	0.057
L	0.15	0.20	0.25	0.006	0.0079	0.010

SOLDERING FOOTPRINT*