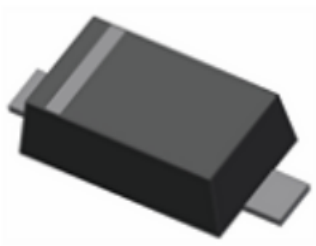


Schottky Barrier Diode



SOD-523 Flat Lead



Specification Features:

- Low Forward Voltage Drop
- Flat Lead SOD-523 Small Outline Plastic Package
- Extremely Small SOD-523 Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation	200	mW
T_{STG}	Storage Temperature Range	-55 to +125	°C
T_J	Operating Junction Temperature	+125	°C
V_{RM}	Peak Reverse Voltage	40	V
V_R	Reverse Voltage	30	V
I_F	Forward Current	30	mA
I_{FSM}	Non-Repetitive Peak Forward Current (at 8.3ms single half sine-wave)	200	mA

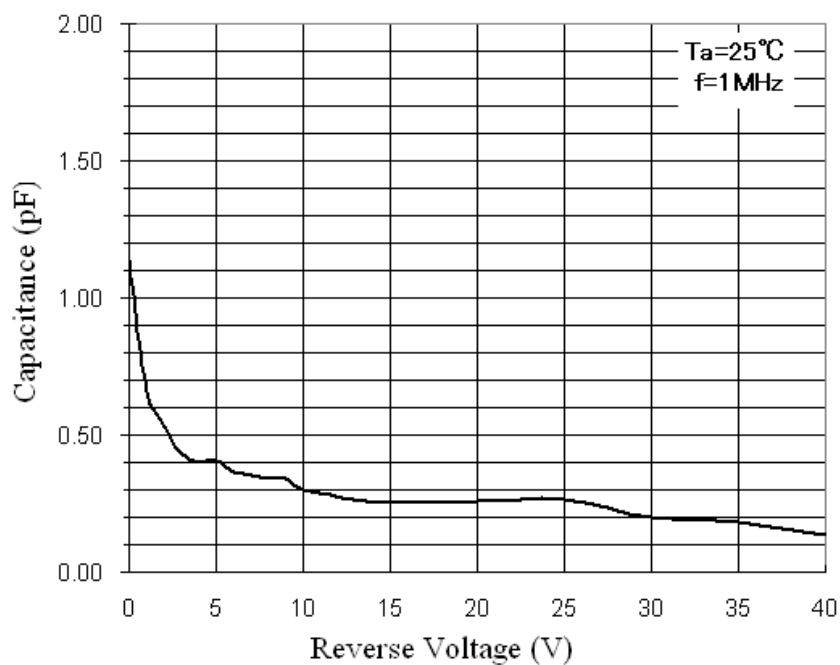
These ratings are limiting values above which the serviceability of the diode may be impaired.

Electrical Characteristics T_A = 25°C unless otherwise noted

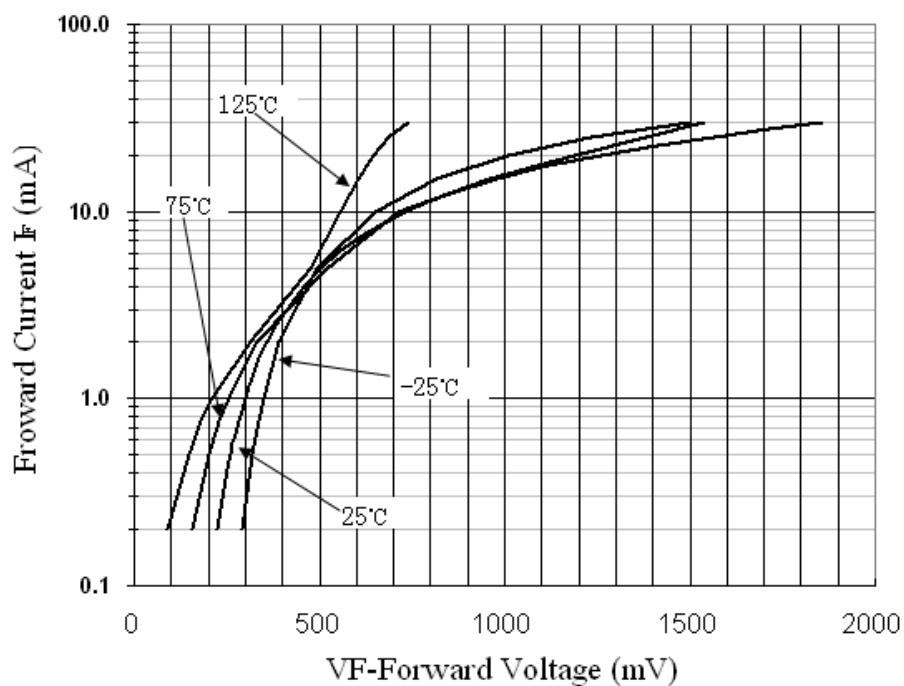
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	I _R =10μA	30		Volts
I_R	Reverse Leakage Current	V _R =30V		0.5	μA
V_F	Forward Voltage	I _F =1mA		0.37	Volts

Typical Performance Characteristics

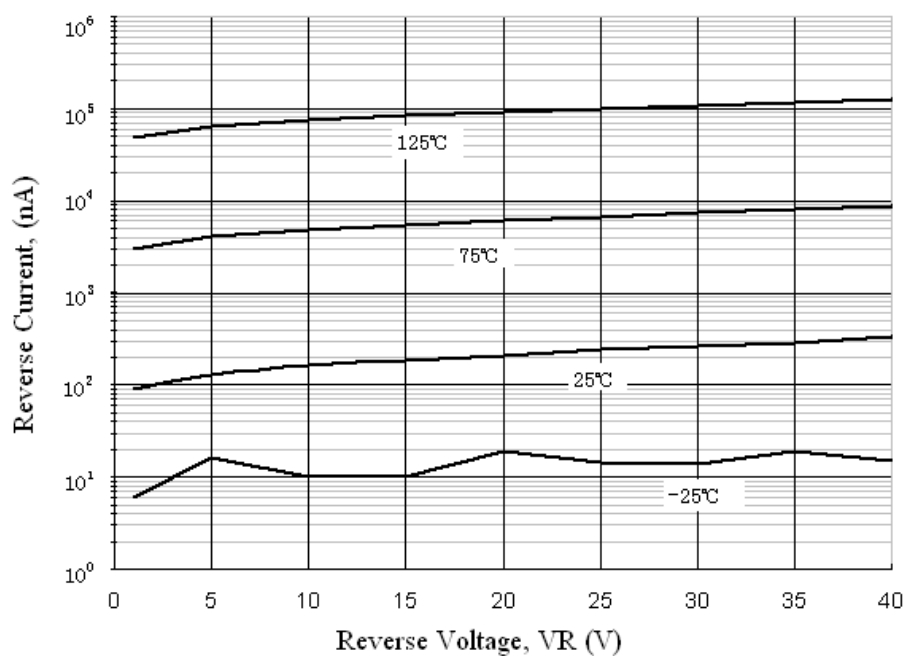
Total Capacitance



Forward Voltage vs Ambient Temperature

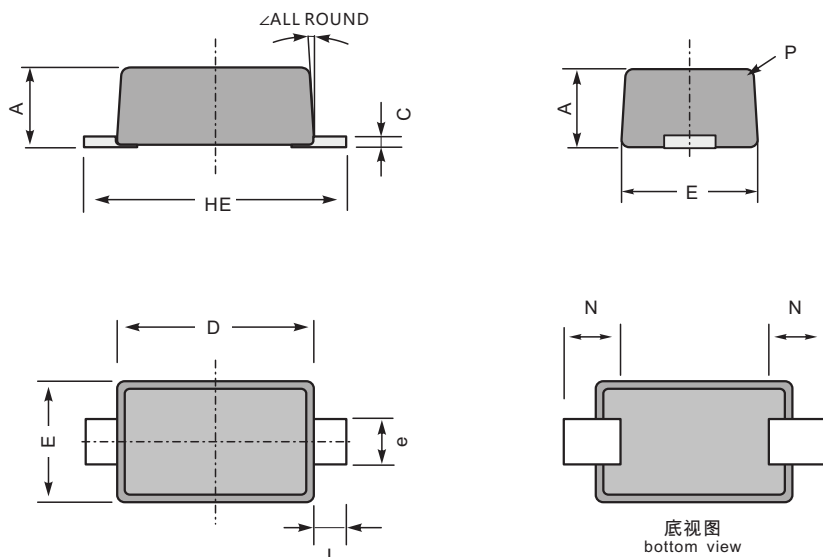


Reverse Current vs Reverse Voltage



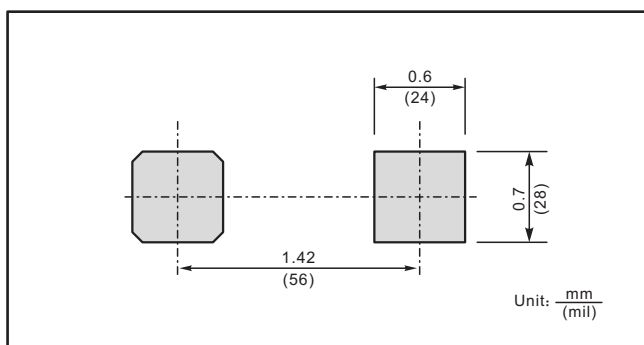
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



UNIT		A	e	C	D	E	HE	N	L	P	∠
mm	max	0.77	0.35	0.15	1.30	0.99	1.70	0.35 ref	0.2 ref	R0.1 ALL ROUND	10° ± 1
	min	0.51	0.25	0.08	1.10	0.75	1.50				
mil	max	30	14	6	51	39	67	14 ref	8.0 ref	R4.0 ALL ROUND	
	min	20	10	3	43	30	59				

The recommended mounting pad size



Marking

Type number	Marking code
RB751S-40	4B