

SOD-523

SOD-523 Plastic-Encapsulate Schottky Barrier Diode



Marking:



Features

- High Current Capability
- Low Forward Voltage Drop

Mechanical Data

- SOD-523 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any

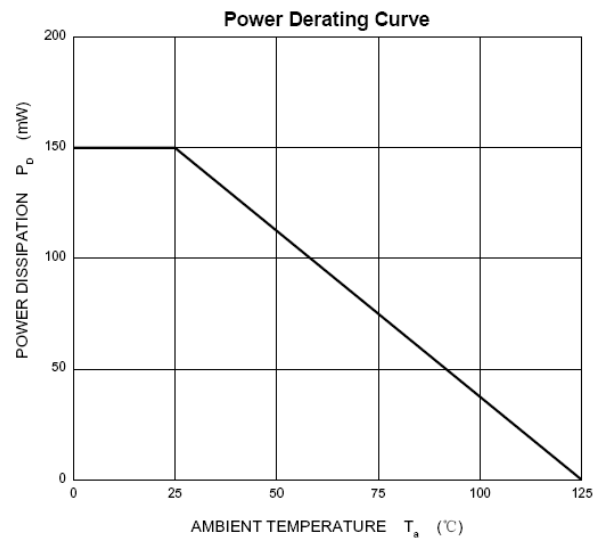
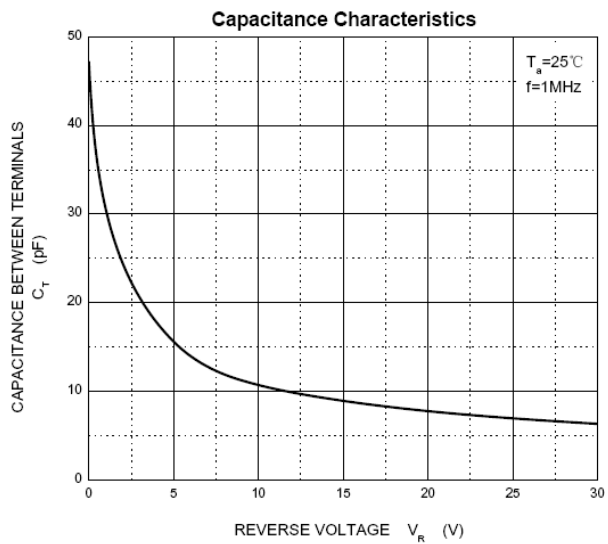
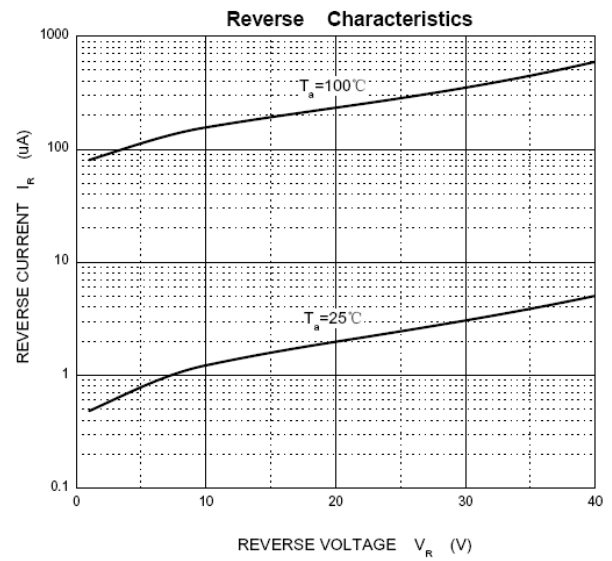
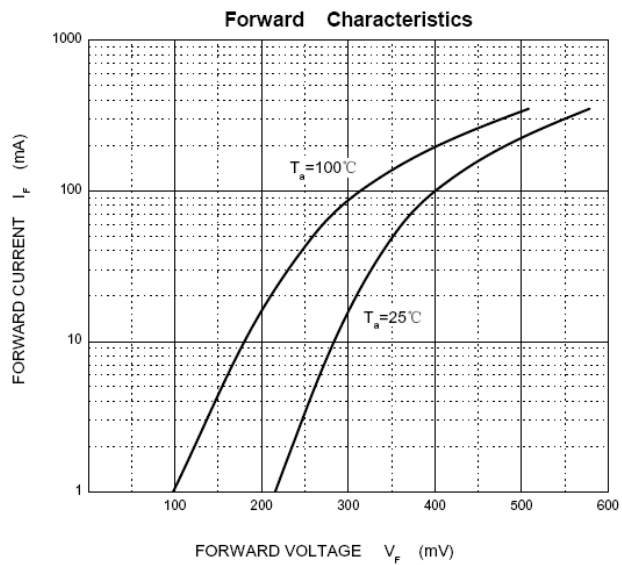
Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	VRRM	40	V
Maximum RMS voltage	VRMS	28	V
Maximum DC blocking voltage	VDC	40	V
Maximum average forward rectified current	IFM	350	mA
Peak forward surge current 8.3 ms single half sine-wave	IFSM	2	A
Power Dissipation	PD	150	mW
Typical thermal resistance	RθJA	667	°C/W
Operating junction temperature	Tj	-55-+125	°C
Storage temperature range	TSTG	-55-+150	°C

Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

Parameters	Symbol	Test conditions	Min	TYP	Max	Unit
Maximum forward voltage	VF	IF = 20mA IF = 200mA			0.37 0.60	V
Maximum reverse breakdown voltage	VR	IR=100uA	40			V
Maximum reverse current	IR	VR=30V VR=20V VR=10V			5 2 1	uA
Total capacitance	Ctot	VR =0V, f = 1MHz		50		pF
Reverse recovery time	Trr	IF=IR=200mA, Irr=0.1xIR, RL=100 Ω		10		ns

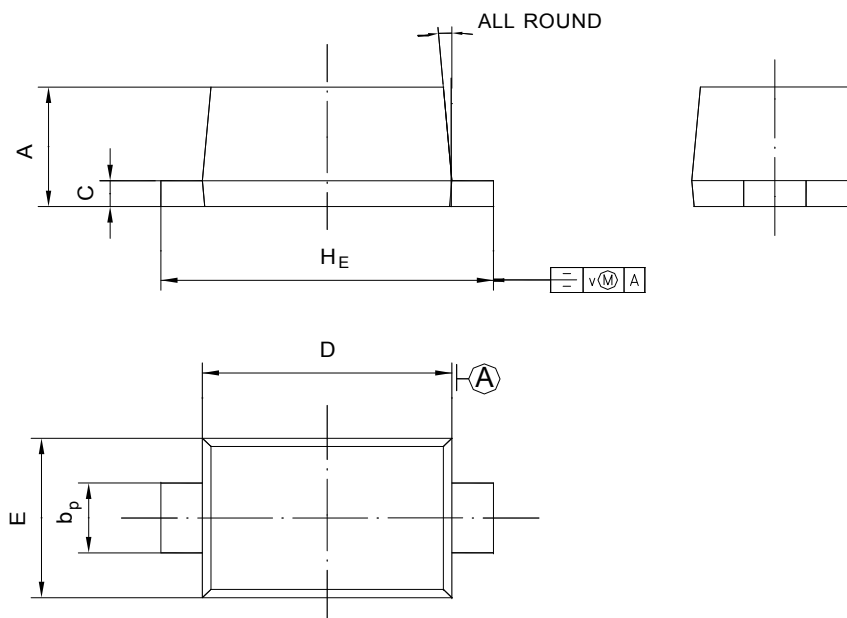
Characteristic Curves



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



UNIT	A	b _p	C	D	E	H _E	V	∠
mm	0.77 0.51	0.40 0.25	0.15 0.08	1.30 1.10	0.85 0.75	1.7 1.5	0.1	5°